CONSTRUCTION NEWS

PERSONALS, ENGINEERING SOCIETIES, ENGINEERING SCHOOLS, READERS' WANTS, INDUSTRIAL NOTES, PUBLICATIONS.

Supplement to ENGINEERING NEWS. New York, October 6, 1904.

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PERSONAL.

Mr. Fred W. Witter has been appointed Superintendent of Water-Works of Newark Valley, N. Y.

Mr. C. A. Wilson has been appointed Chief Engineer of the Chicago, Cincinnati & Louisville R. R., with headquarters at Cincinnati, O., vice Mr. J. A. S. Graves, resigned.

Mr. I. Wayne von Leer, M. Am. Soc. C. E., 100 Broadway, New York, has gone to Mexico to examine into and report on the El Carmen Copper Co.'s property in that country.

Mr. W. M. S. Miller has joined the staff of the Allis-Chalmers Co., with headquarters in Chicago. He was formerly in the employ of the Westinghouse Electric & Mfg. Co.

Mr. W. J. Karner, Resident Engineer, at Panama, has been appointed Acting Chief Engineer of the Isthmian Canal Commission, during the absence of the Chief Engineer from the Isthmus.

Mr. Frank Hedley has been made General Manager of the Interborough Rapid Transit Co., of New York City, and the position of General Superintendent formerly held by him has been abolished.

Mr. R. L. Richardson, for a number of years in the Pittsburg sales office of the Westinghouse Electric & Mfg. Co., has become a member of the Pittsburg selling force of the Allis-Chalmers Co.

Mr. S. H. Sharpsteen, for a number of years with the General Electric Co. as salesman in their New York office, has accepted a similar position with the Allis-Chalmers Co. in their New York office.

Mr. James Ashworth, until recently engineer of the City of Chicago, in the Department of Water Supply, has entered the employ of the Allis-Chalmers Co. as salesman in their Pumping Engine Department.

Mr. Chas. S. Buell, Mechanical Engineer, who until recently represented the Westinghouse Machine Co. in Chicago, has entered the employ of the Allis-Chalmers Co. as salesman and engineer in their Power Department.

Mr. J. R. Wemlinger, former Engineer with the Cambria Steel Co., of Johnstown, Pa., has been appointed Assistant to the New York Sales Agent of the Gautier Department of the same company, at 71 Broadway, New York.

Mr. David N. Duller, Chief Civil Engineer for the American Rice Cereal Co. of Kansas City and San Antonio, has located in Houston, Tex., and will have his office in the Commercial National Bank Building.

Mr. M. C. Miller has resigned his position in the Alternating Current Department of the Westinghouse Electric & Mfg. Co., Pittsburg, Pa., to accept a similar position with the Allis-Chalmers Co. in their electrical department.

Mr. John V. Redfield, after some years in the works and in the Chicago sales office of the Westinghouse Electric & Mfg. Co., has been appointed to the sales staff of the Allis-Chalmers-Bullock interests at their Chicago office.

Dr. Charles A. Doremus has retired from his duties as Professor of Chemistry at the College of the City of New York, and will engage in practice as a Consulting and Expert Chemist. His office will be at 55 West 53d St., New York City.

Notice of the resignation of Mr. Nicholas S. Hill, Jr., as Chief Engineer of the Department of Water Supply of New York City has just become public. Mr. Hill resigned to take effect Aug. 1, but at the request of Commissioner Oakley remained in office until Sept. 1. Mr. George W. Birdsall, Consulting Engineer of the department has been Acting Chief Engineer since Mr. Hill's resignation.

Mr. Wilbur M. Ruth, until recently Assistant to the President of the Mesta Machine Co., Pittsburg, Pa., and previously employed on the engineering staff of the E. P. Allis Company, has accepted a position as salesman and engineer for the Allis-Chalmers Co. at their Pittsburg office.

Mr. G. Fred Collins, who has an extensive acquaintance throughout the East among officials and engineers of large railroad and steel companies, has recently entered the employ of the Allis-Chalmers Co. as special representative at their New York office.

Mr. Arthur W. Tidd, Assoc. M. Am. Soc. C. E., has accepted a position as Assistant Engineer with the N. Y. Aqueduct Commission. Since Jan., 1904, he has been employed with the Charles River Basin Commission of Boston, Mass., as Assistant Engineer.

Mr. Chas. F. Adae, for several years in the employ of the Westinghouse Electric & Mfg. Co., Pittsburg, Pa., and lately Manager of the Pittsburg office of the C. Lee Cook Co., has been appointed to the selling force of the Allis-Chalmers Co., at their New York office.

Mr. Otto Clyde Ross, for several years employed with the Westinghouse Machine Co. as engineer and salesman, and lately in the employ of the Hartford Lead, Zinc, Mining & Smelting Co. as engineer, has accepted an appointment with the Allis-Chalmers Co. as engineer and salesman.

Mr. John F. Burke, for a number of years with the Westinghouse Electric & Mfg. Co., in Omaha, Neb., has joined the selling force of the Allis-Chalmers Co., with headquarters in Omaha, and will engage in the sale of Corliss engines, electrical apparatus, and crushing and cement machinery for the latter concern.

Mr. Thomas F. Richardson, M. Am. Soc. C. E., Engineer of the Dam and Aqueduct Department of the Metropolitan Water and Sewerage Board, in charge of the work at Clinton, Mass., was presented with a silver loving cup Sept. 24 by members of the Worcester County Society of Engineers. Mr. Richardson, who for the past seven years has been connected with the Dam and Aqueduct Department of the Metropolitan Water and Sewerage Board, has severed his connection with that board and will go to Panama to take charge of a portion of the work of constructing the Panama Canal.

OBITUARY.

Henry Schroeter, County Surveyor of Woodruff County, Arkansas, died at Mulberry, Ark., Sept. 23.

William Irving, formerly City Engineer of Kingston, Ont., died recently at Riverside, Cal., aged 70 years.

Thomas W. Williams, a mining contractor, of Wilkesbarre, Pa., was accidentally killed in the South Wilkesbarre colliery Sept. 29.

Marcus L. Mitchell, formerly Chief Engineer of the Government ice plant at Manila, P. I., died Sept. 29 at St. Louis, Mo., after a long illness.

Charles F. Harrington, a member of the State Sewerage Commission of New Jersey, died at his home in Lyndhurst, N. J., Sept. 29. He was 61 years old.

Samuel S. Robinson, a civil engineer and mining expert, who is said to have been the first engineer to construct a bridge on hollow piers died recently at Detroit, Mich.

William W. Martin, a young civil engineer, of St. Louis, Mo., killed himself Sept. 6 near Shawneetown, Ill., while temporarily insane. His body was not discovered until Sept. 28.

Samuel Waldo Smith, a gas engineer in the employ of the Safety Car Heating & Lighting Co., died Sept. 18 from injuries received as the result of an explosion of gas. Mr. Smith was graduated from the Mechanical Engineering Department of the University of Vermont in the class of 1901, and at the time of his death, was acting as Superintendent of a gas generating plant in Pittsburg, Pa.

Gen. Charles W. Irish, a former United States Surveyor-General, died recently at Gold Creek, Nev. Gen. Irish surveyed Iowa for the Northwestern and the Burlington, Cedar Rapids & Northern railroads, the Santa Fe, Colorado and Arizona routes, built the Royal Gorge and Grand Canon bridges, the bridge over the Missouri at Omaha and laid out the early roads in both Dakotas. He was Chief of the Department of Irrigation and Inquiry under President Cleveland.

Daniel F. Minahan, a retired contractor, died at home in Orange, N. J., Sept. 26. As an engineer and contractor he was employed by the Dutchess & Columbia R. R., the Waterbury & Watertown R. R., and the Connecticut & Western R. R. He constructed the water-works system of Lebanon, Pa.; the sewer system at Alliance, O.; the City Hall and Court House at Springfield, and also 22 miles of the Springfield & Jackson narrow-gage road. He also executed extensive public works at Hamilton, Lima, and Dayton, O.

ENGINEERING SOCIETIES.

COMING MEETINGS.

INTERNATIONAL ENGINEERING CONGRESS.
Oct. 3 to 8, 1904. Held at St. Louis, Mo., under the auspices of the American Society of Civil Engineers. Secy., Chas. Warren Hunt, 220 W. 57th St., New York.

AMERICAN STREET RAILWAY ASSOCIATION.
AMERICAN RAILWAY MECHANICAL AND ELECTRICAL ASSOCIATION.
STREET RAILWAY ACCOUNTANTS' ASSOCIATION.
Oct. 10 to 15, 1904. Annual meetings at St. Louis, Mo.

RAILWAY SIGNAL ASSOCIATION.
Oct. 11, St. Louis, Mo. Secy., B. B. Adams, 83 Fulton St., New York.

ASSOCIATION OF RAILWAY SUPERINTENDENTS OF BRIDGES AND BUILDINGS.
Oct. 18, 19, 20. Annual meeting at Chicago. Secy., S. F. Patterson, Concord, N. H.

AMERICAN GAS LIGHT ASSOCIATION.
Oct. 19, 20, 21, 1904. Annual meeting at Washington, D. C. Secy., A. E. Forstall, 58 William St., New York, N. Y.

IRON AND STEEL INSTITUTE (Great Britain).
Oct. 24 to 26, 1904. Annual meeting at New York City. Secy., B. H. Brough, 28 Victoria St., London, S. W.

ENGINE BUILDERS' ASSOCIATION OF THE UNITED STATES.
Dec. 2, 3, 1904. Annual meeting at New York, N. Y. Secy., D. Fleming, Harrisburg, Pa.

AMERICAN SOCIETY OF MECHANICAL ENGINEERS.
Dec. 6, 1904. Annual meeting at New York City. Secy., F. R. Hutton, 12 West 31st St., New York.

AMERICAN INSTITUTE OF ARCHITECTS.
Dec. 15 to 17, 1904. Annual meeting at Washington, D. C. Secy., Glenn Brown, Washington, D. C.

PACIFIC NORTHWEST SOCIETY OF ENGINEERS.—The first meeting of the fall season was held at the Chamber of Commerce, Seattle, Wash., on Oct. 1. Mr. C. M. Colby read a paper on "The Relation of Engineer to Manufacturer, and the Sale and Installation of Plants."

ENGINE BUILDERS' ASSOCIATION OF THE UNITED STATES.—The annual meeting will be held at Sherry's, 45th St. and Fifth Ave., New York City, on Dec. 2 and 3, 1904. This is the week during which the American Society of Mechanical Engineers meets in New York City. The secretary of the association is Mr. D. Fleming, Harrisburg, Pa.

BOSTON SOCIETY OF CIVIL ENGINEERS.—On the evening of Wednesday, Oct. 12, 1904, a meeting of the Sanitary Section of the society will be held at the Copley Square Hotel, cor. Huntington Ave. and Exeter St. The meeting will be called to order at 7:15 p. m. The subject of the evening is an address by Mr. M. N. Baker, Associate Editor of Engineering News, entitled "A Recent Visit to Twenty-four British Sewage Works." Clerk of the section, Wm. S. Johnson, State House, Boston, Mass.

WESTERN SOCIETY OF ENGINEERS.—An informal reception was given to the visiting members of the British Institution of Civil Engineers at the Auditorium Hotel, Chicago, on Sept. 28, by the officers and special committee of this society, the local committee of the American Society of Civil Engineers and the local members of the institution. The reception was held in the morning, and afterwards the party was divided into small groups which were escorted by local engineers to places of interest in the city. After a lunch given by the Engineers' Club, some of the party visited the river drawbridges on a steam launch in charge of Mr. Ericson, City Engineer; others visited the telephone and freight transportation tunnels of the Illinois Tunnel Co., electric trains being provided by Mr. Geo. W. Jackson, the General Manager. On Sept. 29 a special train took a large party of visitors and local engineers to the South Chicago works of the Illinois Steel Co. and to the controlling works of the Chicago Drainage Canal.

AMERICAN RAILWAY ENGINEERING AND MAINTENANCE OF WAY ASSOCIATION.—A special meeting of officers of the association, and chairmen and vice-chairmen of the committees, was held in Chicago on Sept. 29 to meet Mr. Leslie S. Robertson, Secretary of the British Engineering Standards Committee. Mr. H. G. Kelly, Chief Engineer of the Minneapolis & St. Louis Ry., presided. Mr. Robertson explained at some length the purposes and organization of his committee, which is supported by the four "Institutions" of civil, mechanical and electrical engineers and naval architects, and the Iron and Steel Institute. Representatives of these societies form the main committee, and there are 12 sectional committees with 21 sub-committees. A statement was presented regarding the work now in progress and the reports thus far completed and made public, these latter including a report on standard sections and specifications for street railway rails. The British government has made a considerable grant of money to aid in the work, and also gives an amount equal to that which may be raised by donations from manufacturers. The Indian government also made a grant on account of some special investigations into the standardizing of locomotives on the railways of India.

MUNICIPAL ENGINEERS OF THE CITY OF NEW YORK.—The opening meeting of the fall season was held at the Chemists' Club, 108 West 55th St., on the evening of Sept. 28, 1904. A paper was presented by Messrs. J. Greiffenberg and W. S. Dalrymple on the subject "The History and Development of the Topographical Work of the City of New York." It described in some detail the changes in the organization and handling of the survey work of New York City, from the early days of the last century to the present time, when the five boroughs are conducting their topographical work independently and under an organization different in each borough.

The society has appointed a committee for the purpose of investigating the datum planes used in the various departments in the different boroughs of the city, and recommending a standard datum plane for the use of all departments. The action of the society in this matter will, of course, have no official force, but it is thought that the recommendation will do much to bring about uniformity in the matter.

The society has also appointed a committee to collect information on the use of asphalt in the cities of the United States.

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ENGINEERING SCHOOLS.

SYRACUSE UNIVERSITY.—The formal opening of the college year took place on Sept. 16, when Chancellor Day addressed the students. At the end of his address he announced that Mr. Lyman Cornelius Smith, who founded the College of Applied Science three years ago by erecting the present commodious building of that college, had now supplemented his gift by undertaking the erection of a new building, 200 × 54 ft., three stories high, to be occupied as a foundry, blacksmith shop, woodworking and machine shops, and hydraulic laboratory. Excavation of the ground for the new building was begun on Sept. 24, and the erection will be proceeded with as rapidly as the weather will permit.

The incoming Freshman class of Smith College now numbers 107, with some more expected. About half of them have registered for electrical engineering, and the other half equally divided between civil and mechanical engineering. This is an increase of 20% over last year.

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CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

The following Plans (P.), Specifications (S.), and Bidding Sheets (B. S.), may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

Bids close	Work.	Place.	On file.	See issue.
Sept.				
Oct.				
*6	Boiler	Wilmington, N. C.	P. & S.	9- 8
8	Brick building	New Orleans, La.	S.	9-15
10	Roads	Wellsboro, Pa.	S. & B. S.	9-22
*10	Water-works	Maumee, O.	S. & B. S.	9-15
11	Water-works	Magnolia, Miss.	S.	10- 6
12	Bridges	Chicago, Ill.	P. S. & B. S.	9-22
15	Foundry	Charleston, S. C.	S.	9-15
15	Dry-dock	Washington, D. C.	S.	9- 1
15	Towboat	Cuba	S.	8-18
15	Paving	Boston, Mass.	S.	10- 6
15	Dredging	Washington, D. C.	S.	10- 6
22	Dredging	Washington, D. C.	S.	9-29
22	Condult system	Wash., D. C.	S.	10- 6
Dec.				
***1**	**Bridge**	**Manila, P. I.**	**P., S. & B. S.**	**7-28**

*Work advertised in Engineering News.

NOTE.—We are desirous of securing specifications and bidding sheets (and plans when not too bulky) of pending work for file in our New York office for the benefit of contractors or others who may be interested in the work. If more sets than one are sent us we shall be pleased to distribute these to contractors who ask for them. When the work is advertised in Engineering News a note that the plans are filed with us will be added to the advertisement without cost.

LIST OF CONTRACTS PENDING.

Bids close. Work. Place. See issue.

LIGHT, HEAT AND POWER PLANTS.

Oct. 18. Power house, Lincoln, Neb. ...... Sept. 29
Oct. 21. Bond sale, New Albany, Miss. ...... Sept. 29
Advertised, Eng. News, Sept. 29 to Oct. 13.
Oct. 25. Electric system, Burlington, Vt. ...... Oct. 6
Oct. 31. Electric lighting, Leon, Mexico ...... Oct. 6

BRIDGES.

Oct. 7. Bridge, Peru, Ind. ...... Oct. 6
Oct. 7. Bridges, iron, La Porte, Ind. ...... Oct. 6
Oct. 8. Bridge, Greenfield, O. ...... Oct. 6
Oct. 10. Bridge approaches, Springfield, Ill. ...... Oct. 6
Oct. 10. Bridges, Toledo, O. ...... Sept. 22
Oct. 10. Bridge, San Luis Obispo, Cal. ...... Sept. 29
Oct. 10. Bridge, San Bernardino, Cal. ...... Sept. 29
Oct. 10. Bridge, Olympia, Wash. ...... Sept. 29
Oct. 12. Bridges, Cleveland, O. ...... Sept. 22
Oct. 12. Bridges, Chicago, Ill. ...... Sept. 22
Oct. 12. Bridge, superstructure, Boston, Mass. ...... Oct. 6
Oct. 12. Bridge, steel, Salem, N. J. ...... Oct. 6
Advertised, Eng. News, Oct. 6.
Oct. 14. Bridge, Vevay, Ind. ...... Sept. 29
Oct. 15. Bridge, Prineville, Ore. ...... Sept. 29
Oct. 15. Bridges, Mansfield, O. ...... Sept. 29
Oct. 15. Bridges, steel, Wichita, Kan. ...... Sept. 29
Oct. 15. Bridge, Rapid City, S. Dak. ...... Oct. 6
Oct. 18. Bridge, Hagerstown, Md. ...... Oct. 6
Oct. 18. Bridge abutments, etc., Newark, N. J. ...... Oct. 6
Advertised, Eng. News, Oct. 6 and 13.
Oct. 18. Bridge, Harrisburg, Pa. ...... Oct. 6
Oct. 20. Bridges, Toledo, O. ...... Oct. 6
Oct. 24. Bridges, etc., Toledo, O. ...... Oct. 6
Oct. 24. Bridge, Cleveland, O. ...... Oct. 6
Oct. 27. Bridge, steel, Peru, Ind. ...... Oct. 6
Oct. 30. Bridge, steel, Crookston, Minn. ...... Sept. 22
Nov. 4. Bridge, New Orleans, La. ...... Sept. 15
Advertised, Eng. News, Sept. 15 to Oct. 7.
Nov. 15. Bridge, Winnipeg, Man. ...... Oct. 6
Dec. 1. Bridge superstructure, Manila, P. I. ...... July 28
Advertised, Eng. News, July 28 to Dec. 1.

BUILDINGS.

Oct. 6. School, Greenville, Miss. ...... Sept. 15
Advertised, Eng. News, Sept. 15 and 22.
Oct. 8. Brick building, New Orleans, La. ...... Sept. 15
Oct. 8. Buildings, New Orleans, La. ...... Sept. 8
Oct. 8. Hotel, Brownsville, Pa. ...... Oct. 6
Oct. 10. Public buildings, Lawton, Okla. ...... Sept. 1
Advertised, Eng. News, Sept. 1 to Oct. 6.
Oct. 10. Court house, Blakely, Ga. ...... Sept. 22
Oct. 10. Brick buildings, etc., Mohave City, Ariz. ...... Sept. 22
Oct. 10. Post buildings, Port Townsend, Wash. ...... Sept. 29
Oct. 10. Masonic temple, Hart, Mich. ...... Oct. 6
Oct. 10. School work, New York, N. Y. ...... Oct. 6
Oct. 11. Buildings, New Orleans, La. ...... Sept. 22
Oct. 12. Post office, Fond du Lac, Wis. ...... Sept. 8
Oct. 12. Lodge building, Philadelphia, Pa. ...... Sept. 29
Oct. 12. Apartment house, Evanston, Ill. ...... Oct. 6
Oct. 12. Poorhouse, Cheyenne, Wyo. ...... Oct. 6
Oct. 14. 17 Buildings, Portland, Me. ...... Oct. 6
Oct. 15. Barrack, Ft. Slocum, N. Y. ...... Sept. 29
Advertised, Eng. News, Sept. 29 and Oct. 6.
Oct. 15. Remodeling jail, Dublin, Ga. ...... Sept. 29
Oct. 15. Brick building, Charleston, S. C. ...... Sept. 15
Oct. 15. Foundry (mfg. plants), Charleston, S. C. ...... Sept. 15
Oct. 16. Quarters, Fort Totten, N. Y. ...... Sept. 22
Advertised, Eng. News, Sept. 22 to Oct. 13.
Oct. 17. Government building, Portland, Ore. ...... Sept. 22
Advertised, Eng. News, Sept. 22 and 29.
Oct. 17. Brick building, Ft. Myer, Va. ...... Sept. 29
Oct. 17. Electric equipment, New York, N. Y. ...... Oct. 6
Oct. 17. Armory, Flushing, N. Y. ...... Oct. 6
Oct. 17. Building, Galt, Ont. ...... Oct. 6
Oct. 18. Post office, Nashua, N. H. ...... Sept. 22
Advertised, Eng. News, Sept. 22 and 29.
Oct. 19. Building, Columbus, O. ...... Sept. 29
Oct. 19. Hospital wiring, San Francisco, Cal. ...... Sept. 29
Oct. 24. Post office, Hammond, Ind. ...... Sept. 22
Oct. 24. Quarters, San Francisco, Cal. ...... Oct. 6
Oct. 24. Museum, Ottawa, Ont. ...... Oct. 6
Oct. 25. Court house, Huntington, W. Va. ...... Sept. 22
Advertised, Eng. News, Sept. 22 and 29.
Oct. 26. Post office, Rock Hill, S. C. ...... Sept. 22
Oct. 26. Steam heating, Pierre, S. Dak. ...... Oct. 6
Oct. 27. Post office, Greeneville, Tenn. ...... Oct. 6
Advertised, Eng. News, Oct. 6 and 13.
Oct. 27. Cut stone, Washington, D. C. ...... Sept. 29
Advertised, Eng. News, Sept. 29 to Oct. 20.
Nov. 1. School plans, etc., Birmingham, Ala. ...... Sept. 15
Nov. 1. Post office, Evanston, Ill. ...... Oct. 6
Advertised, Eng. News, Oct. 6 and 13.
Nov. 2. Post office, Oak Park, Ill. ...... Oct. 6
Nov. 2. Ventilating apparatus, Washington, D. C. ...... Sept. 8
Advertised, Eng. News, Sept. 8 and 15.
Nov. 7. Ventilating apparatus, Washington, D. C. ...... Sept. 15
Nov. 7. Post office, Lawrence, Kan. ...... Oct. 6
Advertised, Eng. News, Oct. 6 and 13.
Nov. 9. Post office, Flint, Mich. ...... Oct. 6
Nov. 10. Laboratory buildings, Washington, D. C. ...... Sept. 22
Advertised, Eng. News, Sept. 22 to Nov. 3.
Nov. 17. Hospital buildings, Schenectady, N. Y. ...... Oct. 6

WATER SUPPLY AND IRRIGATION.

Oct. 10 Water-works, Maumee, O. ...... Sept. 15
Advertised, Eng. News, Sept. 15.
Oct. 10. Water tank and pipe, Jamestown, Pa. ...... Oct. 6
Oct. 10. Water-works, etc., Hazel Green, Wis. ...... Oct. 6
Oct. 11. Water-works, Magnolia, Miss. ...... Oct. 6
Oct. 11. Irrigation canal, Turlock, Cal. ...... Sept. 29
Oct. 11. Tank and trestle, Fort Ethan Allen, Vt. ...... Sept. 29
Advertised, Eng. News, Sept. 29 and Oct. 6.
Oct. 11. Pipe, Camden, N. J. ...... Sept. 29
Advertised, Eng. News, Sept. 29.
Oct. 11. Gate valves, pipe, etc, Atlantic City, N. J. ...... Sept. 29
Advertised, Eng. News, Sept. 29 and Oct. 6.
Oct. 12. Fire service mains, New York, N. Y. ...... Sept. 29
Oct. 12. Water-works, Covington, O. ...... Sept. 22
Advertised, Eng. News, Sept. 22 and 29.
Oct. 14. Water-works, Seaforth, Minn. ...... Sept. 29
Oct. 14. Pipe, Montgomery, Ala. ...... Oct. 6
Advertised, Eng. News, Oct. 6 and 13.
Oct. 15. Water-Works, Bordentown, N. J. ...... Sept. 22
Advertised, Eng. News, Sept. 22 and 29.
Oct. 17. Water-works, Minden, La. ...... Sept. 29
Oct. 17. Well, reservoir, etc., Delaware City, Del. ...... Sept. 29
Advertised, Eng. News, Sept. 29 and Oct. 6.
Oct. 19. Water-works, Summit, Ill. ...... Oct. 6
Oct. 22. Water system extens'n, Ft. Douglas, Utah. ...... Sept. 29
Oct. 25. Water system, Wittenberg, Wis. ...... Oct. 6
Oct. 26. Tower, tank, etc., Kiel, Wis. ...... Oct. 6
Advertised, Eng. News, Oct. 6.
Oct. 28. Water distributing system, Prescott, Ariz. ...... Sept. 29
Advertised, Eng. News, Sept. 29 to Oct. 27.
Oct. 31. Lead pipe, etc., Victoria, B. C. ...... Sept. 29
Nov. 1. Water-works, etc., Summerside, P. E. I. ...... Aug. 25
Nov. 9. Pumping machinery, New Orleans, La. ...... Sept. 1
Advertised, Eng. News, Sept. 1 to Nov. 10.
Nov. 17. Pumping engines, Chicago, Ill. ...... Sept. 22
Advertised, Eng. News, Sept. 22 to Nov. 17.
Nov. 23. Hydrants, New York, N. Y. ...... Sept. 29

SEWERAGE.

Oct. 6. Sewers, Fargo, N. Dak. ...... Sept. 29
Oct. 6. Sewer system, Downers Grove, Ill. ...... Sept. 29
Oct. 7. Pipe sewers, Fulton, N. Y. ...... Sept. 29
Advertised, Eng. News, Sept. 29.
Oct. 7. Sewer, New Albany, Ind. ...... Sept. 29
Oct. 7. Sewers, Waterbury, Conn. ...... Oct. 6
Oct. 7. Sewers, Corry, Pa. ...... Oct. 6
Oct. 7. Sewers, septic tank, Glenwood, Minn. ...... Oct. 6
Oct. 7. Sewers, Scranton, Pa. ...... Oct. 6
Oct. 8. Sewer system, Greensburg, Pa. ...... Oct. 6
Oct. 8. Drains, etc., Cincinnati, O. ...... Sept. 22
Oct. 8. Sewer system, Ft Barrancas, Fla. ...... Sept. 22
Oct. 10. Sewers, Cincinnati, O. 22
Oct. 10. Sewers, Allegheny City, Pa. ...... Oct. 6
Oct. 13. Sewers, Washington, D. C. ...... Oct. 6
Advertised, Eng. News, Oct. 6.
Oct. 15. Sewer work, Milford, Neb. ...... Oct. 6
Oct. 15. Sewage station, Chicago, Ill. ...... Oct. 6
Oct. 17. Sewer, Winona, Minn. ...... Oct. 6
Oct. 17. Sewer, Richland Center, Wis. ...... Oct. 6
Oct. 17. Sewer system, New Albany, Ind. ...... Oct. 6
Oct. 17. Sewer system, Anadarko, Okla. ...... Sept. 29
Oct. 18. Chimney, etc., Chicago, Ill. ...... Oct. 6
Oct. 19. Sewers, Brooklyn, N. Y. ...... Oct. 6
Oct. 19. Sewers, Cleveland, O. ...... Sept. 29
Oct. 20. Sewer pipe, etc., Washington, D. C. ...... Sept. 22
Advertised, Eng. News, Sept. 22 to Oct. 20.
Oct. 20. Sewer pipe, San Diego, Cal. ...... Oct. 6
Oct. 24. Sewer system, Rockyford, Colo. ...... Oct. 6
Nov. 1. Sewerage, Summerside, P. E. I. ...... Aug. 25

STREETS AND ROADS.

Oct. 6. Paving, brick, Cincinnati, O. ...... Sept. 29
Oct. 6. Plaza, Brooklyn, N. Y. ...... Sept. 29
Oct. 7. Grading, Ft. Leavenworth, Kan. ...... Sept. 15
Oct. 7. Paving, Pekin, Ill. ...... Oct. 6
Oct. 8. Paving, Wilkinsburg, Pa. ...... Oct. 6
Oct. 8. Roads, Leadville, Colo. ...... Oct. 6
Oct. 8. Sidewalks, Alton, Ill. ...... Oct. 6
Oct. 8. Paving, etc., Ashtabula, O. ...... Oct. 6
Oct. 8. Roads, Bedford, Ind. ...... Oct. 6
Oct. 10. Paving, Omaha, Neb. ...... Sept. 29
Oct. 10. Road, Wellsboro, Pa. ...... Sept. 22
Oct. 10. Road, New Castle, Pa. ...... Sept. 22
Oct. 10. Paving, Toledo, O. ...... Sept. 22
Oct. 10. Grading, etc., Boston, Mass. ...... Oct. 6
Oct. 10. Sidewalks, San Jose, Cal. ...... Oct. 6
Oct. 10. Paving, Allegheny City, Pa. ...... Oct. 6
Oct. 10. Sidewalks, Muncie, Ind. ...... Oct. 6
Oct. 10. Sidewalks, cement, Indianapolis, Ind. ...... Oct. 6
Oct. 10. Paving, Omaha, Neb. ...... Oct. 6
Oct. 10. Walks, etc., Ft Leavenworth, Kan. ...... Oct. 6
Oct. 11. Sidewalks, etc., St. Paul, Minn. ...... Oct. 6
Oct. 11. Roads, Albany, N. Y. ...... Sept. 29
Oct. 12. Macadamizing, Cincinnati, O. ...... Sept. 22
Oct. 12. Paving, asphalt, New York, N. Y. ...... Sept. 29
Oct. 12. Paving, asphalt, Brooklyn, N. Y. ...... Sept. 29
Oct. 12. Paving, asphalt, New York, N. Y. ...... Oct. 6
Oct. 13. Macadamizing, Cincinnati, O. ...... Oct. 6
Oct. 13. Paving, etc., Guthrie, Okla. ...... Oct. 6
Oct. 13. Roads, gravel, Brownstown, Ind. ...... Sept. 22
Oct. 13. Paving, etc., McKees Rocks, Pa. ...... Sept. 29
Oct. 14. Macadamizing, White Plains, N. Y. ...... Sept. 29
Advertised, Eng. News, Sept. 29 to Oct. 20
Oct. 15. Paving, etc., Boston, Mass. ...... Oct. 6
Oct. 17. Grading, Port Townsend, Wash. ...... Oct. 6
Oct. 17. Macadamizing, etc., Muncie, Ind. ...... Oct. 6
Oct. 17. Paving, Steubenville, O. ...... Oct. 6
Oct. 17. Paving, Sedalia, Mo. ...... Sept. 29
Oct. 19. Grading, etc., Blaine, Wash. ...... Oct. 6
Oct. 19. Macadamizing, etc., Cincinnati, O. ...... Oct. 6
Oct. 20. Paving, etc., Cincinnati, O. ...... Sept. 29
Oct. 24. Paving, Helena, Mont. ...... Oct. 6
Oct. 24. Macadamizing, Muncie, Ind. ...... Oct. 6
Oct. 24. Road, Williamsport, Pa. ...... Oct. 6
Oct. 26. Paving, etc., Cincinnati, O. ...... Oct. 6
Oct. 28. Roads, etc., San Francisco, Cal. ...... Oct. 6
No date. Sidewalks, etc., Brooklyn, N. Y. ...... Sept. 22
Advertised, Eng. News, Sept. 22.
No date. Paving, brick, Morris, Ill. ...... July 21
Advertised, Eng. News, July 21 to Oct. 13.

MISCELLANEOUS CONTRACTS.

Oct. 6. Piers, New York, N. Y. ...... Sept. 29
Oct. 6. Steam shovels, etc., Washington, D. C. ...... Sept. 15
Advertised, Eng. News, Sept. 15 to Oct. 6.
Oct. 6. Engines, generators, etc., West Point, N. Y. ...... Sept. 8
Advertised, Eng. News, Sept. 8 to Oct. 6.
Oct. 6. Boiler, Wilmington, N. C. ...... Sept. 8
Advertised, Eng. News, Sept. 8 to Oct. 6.
Oct. 7. Riprap stone, New York, N. Y. ...... Sept. 29
Oct. 7. Fire alarm system, Ellis Island, N. Y. ...... Sept. 29
Oct. 8. Drains, culverts, Cincinnati, O. ...... Sept. 29
Oct. 10. Drainage canal, New Iberia, La. ...... Sept. 29
Oct. 10. Levee, Marksville, La. ...... Oct. 6
Oct. 10. Fire engines, Los Angeles, Cal. ...... Oct. 6
Oct. 10. Garbage disposal, Philadelphia, Pa. ...... Oct. 6
Oct. 11. Retaining wall, Dedham, Miss. ...... Oct. 6
Oct. 11. Structural steel, Boston, Mass. ...... Oct. 6
Oct. 11. Naval supplies, Washington, D. C. ...... Sept. 29
Oct. 11. Electrical supplies, Washington, D. C. ...... Sept. 29
Oct. 11. Machine tools, Washington, D. C. ...... Sept. 15
Oct. 11. Dredging, Passaic, N. J. ...... Sept. 15
Advertised, Eng. News, Sept. 15 to Oct. 13.
Oct. 12. Embankment, Chicago, Ill. ...... Aug. 18
Oct. 12. Wharf, piers, etc., Jacksonville, Fla. ...... Sept. 22
Advertised, Eng. News, Sept. 22 to Oct. 13.
Oct. 12. Steamer, Washington, D. C. ...... Sept. 29
Advertised, Eng. News, Sept. 29 and Oct. 6.
Oct. 12. Street signs, New York, N. Y. ...... Oct. 6
Oct. 12. Crematory, Portland, Me. ...... Oct. 6
Oct. 13. Breakwater, Ottawa, Ont. ...... Oct. 6
Oct. 13. Railroad franchise, California ...... Sept. 29
Oct. 14. Fences and gates, Chattanooga, Tenn. ...... Sept. 29
Advertised, Eng. News, Sept. 29 to Oct. 20.
Oct. 14. Magazine, Winnipeg, Man. ...... Oct. 6
Oct. 15. Dredging, Washington, D. C. ...... Oct. 6
Oct. 15. Tug boat, Cuba ...... Aug. 18
Oct. 15. Plans for harbor, Sweden (Foreign) ...... April 21
Oct. 15. Completing dry-dock, Washington, D. C. ...... Sept. 1
Oct. 15. Dam, Hendrix, Pa. ...... Sept. 8
Oct. 18. Crematory, Fort Sam Houston, Tex. ...... Sept. 29
Oct. 19. Elevator, Washington, D. C. ...... Sept. 29
Oct. 20. Dump cars, cement, etc., Panama ...... Sept. 22
Advertised, Eng. News, Sept. 22 to Oct. 20.
Oct. 20. Electric railway, Ithaca, N. Y. ...... Oct. 6
Advertised Eng. News, Oct. 6.
Oct. 20. Lumber and wire, New York, N. Y. ...... Oct. 6
Oct. 21. Tower clock, Huntington, Ind. ...... Oct. 6
Oct. 21. Riprap stone, Tompkinsville, N. Y. ...... Oct. 6
Advertised, Eng. News, Oct. 6 and 13.
Oct. 22. Conduits, Washington, D. C. ...... Oct. 6
Oct. 22. Railway construction, Brazil ...... Aug. 25
Oct. 22. Dredging, Washington, D. C. ...... Sept. 29
Oct. 26. Launch, New York, N. Y. ...... Oct. 6
Nov. 4. Harbor work, Chicago, Ill. ...... Oct. 6
Advertised, Eng. News, Oct. 6 to Nov. 3.
Nov. 10. Docks, moles and forts, Chili ...... Aug. 18
Nov. 14. Ditch, etc., Bloomfield, Mo. ...... Oct. 6
Nov. 23. Telegraph material, Australia ...... Oct. 6
Nov. 30. Timber, drainage, New Orleans, La. ...... Sept. 29
Advertised, Eng. News, Sept. 29 to Dec. 1.
Dec. 15. Battleship, Washington, D. C. ...... Sept. 29

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RAILWAYS.

ATCHISON, TOPEKA & SANTA FE.—It is reported that surveys are being run for an extension from Tulsa, Ind. T., southwesterly to Shawnee, Okla., 70 miles. The new line will parallel the St. Louis & San Francisco between these points. Connection will be made with the Eastern Oklahoma division of the Santa Fe at Shawnee. The present southern terminus of the A. T. & S. F. is Owasso, Ind. T. J. Dun, Chicago, is Ch. Engr. H. U. Mudge, Gen. Mgr., Topeka, Kan.; is reported to have stated that work will begin on the 12-mile extension from Owasso to Tulsa.

CHICAGO, MILWAUKEE & ST. PAUL.—Roswell Miller, Chn. of Board of Directors, is quoted as saying that there has been no authority at any time for the statements that the Chicago, Milwaukee & St. Paul Co. is contemplating a line through to the Pacific coast. While the road may go there some time in the future, the matter has never yet been taken up and discussed by the directors, and all statements to the contrary are false. It has been persistently rumored that the land had been acquired in Portland, Ore., and Seattle, Wash., for terminals.

IDAHO.—At a recent meeting of the Boise Chamber of Commerce the question of raising the bonus of $250,000 asked by Capt. F. L. Evans, representing eastern trust companies, for construction of a standard gage railroad from Pine, Idaho, to Vale, Ore., was discussed. President Logan appointed a committee consisting of C. R. Shaw, C. E. Sturges and Leo Falk, that will appoint an active committee to conduct canvas of the city.

JELLICO, BARBOURSVILLE, MANCHESTER & BEATTYVILLE.—This company is reported organized by residents of Jellico, Tenn., and Manchester, Ky., to build a railroad from Jellico, Tenn., to Beattyville, Ky.

KANSAS CITY, BURLINGAME & WESTERN.—A. L. Hartridge, Ch. Engr., Olathe, Kan., writes us that no contracts for construction have been let as yet; 16,920 tons of 75-lb. rails will be needed. Line will run from Olathe, Kan., to Council Grove, 141 miles, as previously noted. There will be fourteen stations, three round houses and three repair shops erected. There will be required about 1,600 ft. of iron bridges, 32,400 ft. of wood trestling, 22,920 tons of general structural material, 1,056,000 spikes, bolts (1,900,000 lbs.), fencing (282 miles), cattle guards (282), oak ties (2,640 to the mile), crow bars, claw bars, tamping bars, picks, rail benders, track gages, track jacks, track levers, track drills, rail saws, hand and push cars, tents, steam and electric locomotives, dynamos, etc. Motive power will be electricity, but six 70-ton standard gage steam locomotives will be used.

LAKE ERIE & PITTSBURG.—Directors have increased capital stock of this company from $100,000 to $10,000,000. It is stated that the directors have decided to build a double track between Lorain and Youngstown, O., and to build branch depots, rolling stock, etc. William E. Kennefick, Kansas City, is Pres.

NICOLA, KAMLOOPS & SIMILKAMEEN COAL & RY. CO.—Geo. A. Begy, of St. Catharines, Ont., Pres. of this company, is reported as saying that every arrangement has been made for financing the projected line. Company has a charter to build a line from Spence's Bridge, on the main line of the Canadian Pacific Ry., to Nicola, and from Nicola through the Similkameen Valley to Osoyoos, on the southern boundary. Surveys are nearly completed. Charles H. Keefer, C. E., is in charge of this work. First construction work will be from Spence's Bridge to Nicola, a distance of 45 miles.

OKLAHOMA & CHEROKEE CENTRAL.—St. Louis press report states that this road, that will be constructed through the Indian Territory and Oklahoma to Wichita, Kan., "is now an assured fact." The surveyors have commenced at Nowata, Ind. T., and have located the route through the city. At Chelsea, Ind. T., heavy grading machinery has arrived. $1,500,000 is said to be available for construction. Extension of line from Pryor Creek, Ind. T., by way of Marble and Sallisaw to Fort Smith, Ark., has been approved by the company and a bonus will be required from these towns. H. M. Adams, of Chelsea, Ind. T., is interested.

ONTONAGON & SOUTHWESTERN.—Engineers are reported to be running a preliminary survey for the proposed route. It is expected that some construction work will be done this fall. From Ontonagon, Mich., the line will extend directly southwest for five or six miles, and then extend to the south of the Porcupine Mountains as far as the Presque Isle River, a distance of 40 or 45 miles. Numerous spur tracks tapping various timber tracts will be extended from the main road. The line will be of standard gage; 60-lb. steel will be laid. The Ontonagon River will be crossed at Ontonagon over the bridge now being built by the Chicago, Milwaukee & St. Paul Co. Officers of the company are: Pres., Timothy Nester, Saginaw; Vice-Pres., John Hawley, Ontonagon; Secy. and Treas., D. J. Norton, Ontonagon.

OREGON & SOUTHEASTERN.—G. B. Hengen, 1135 Broadway, New York, business manager of this company, when in Cottage City, Ore., recently announced, according to report, ~~that construction will commence on the exten-~~sion of the railroad soon. The road is now 16 miles long, and a force will be kept at work until the line is completed to the reserve line, a distance of four miles. A part of the road is to be completed this winter. A. B. Wood, Cottage Grove, Ore., is Ch. Engr.

PARAGOULD & MEMPHIS.—W. E. Winn, Ch. Engr., 724 Roe Bldg., St. Louis, has completed location surveys from Poplar Bluff, Mo., to Marked Tree, Ark., a distance of 102 miles. Construction probably will begin during this month. The line will open up very rich farming and densely timbered lands, along the Black, St. Frances and Little Rivers in Arkansas. French Quinn, Gen. Mgr., Cardwell, Mo., recently stated that this company would build several extensions; from Cardwell to Poplar Bluff, Mo., about 60 miles; from Cardwell to Paragould, Ark., about 12 miles; from Manila to Marked Tree, Ark., about 30 miles, and from a point near Manila to Osceola, Ark., about 16 miles; total, about 108 miles. No contracts have yet been let. Mentioned previously.

PORT ANGELES EASTERN.—British-American Finance Co., of Maine, is reported to have organized with $250,000 capital to complete this road from Port Angeles to Olympia, Wash., about 135 miles. Line has been surveyed entire length; ten miles of the line is said to be graded at Port Angeles, Wash. G. A. Cushing, Port Angeles, is Pres.

UNION PACIFIC.—Kilpatrick Bros. & Collins, of Beatrice and Omaha, Neb., have been awarded contract for building 85 miles of railroad from Marysville to Menoken, in Kansas. This is the beginning of the Kansas division cut-off to the Nebraska division for trans-continental traffic of the Topeka "short cut" to Omaha.

NEW INCORPORATIONS AND CHARTERS.

FLORENCE & CLIFTON.—Tenn.—This company has been chartered with capital stock of $100,000. It was incorporated by E. Watkins, J. C. Janes, W. G. M. Thomas, R. W. Barr and C. H. Smith. It will run from Florence, Ala., to Clifton, Wayne County, Tenn., a distance of 76 miles. It is expected that the actual work of construction will be commenced within the next 30 days, and the work will be pushed rapidly to completion. The proposed new road will extend for a distance of 25 miles over a route which was formerly surveyed for a road which has never been built, and the remainder of the route will be surveyed at once. Watkins & Thompson, of Chattanooga, Tenn., have been retained as attorneys.

GULF, TEXAS & NORTHERN.—Tex.—Charter has been granted to this company to construct a standard gage railroad from a point on the Gulf of Mexico near Sabine Pass, Tex., to Oklahoma City, Okla., traversing counties of Jefferson, Orange, Hardin, Newton, Tyler, Jasper, Angelina, Sabine, San Augustine, Shelby, Hopkins, Delta, Panola, Harrison, Marion, Upshur, Camp, Morris, Franklin, Titus, Red River and Lamar, with a total estimated mileage in Texas of 250 miles. Incorporators: H. L. Hull, of Fort Worth; W. L. Martin and others, of Marshall; S. J. Smart, of Logansport, La. Capitalized at $500,000. Headquarters at Marshall, Tex.

ILLINOIS & WISCONSIN.—Ill.—Incorporation papers have been filed for this company. Capital stock, $25,000. Principal offices, Chicago. It is to be constructed from Chicago to Barrington, Ill. The incorporators and first board of directors are Robert E. Burke, Henry Lutzenkirchen, Clayton E. Crafts, Harry K. Crafts and Abraham L. Shiffman, all of Chicago.

JEFFERSON CITY, JERICO & SOUTHWESTERN.—Mo.—Company has been chartered with capital of $1,250,000 to build a railroad from Minden, in Barton County, northeast to Eldon, 125 miles. Connection will be made with the Rock Island and the Lebanon branch of the Missouri Pacific at Eldon. Julius C. Long, of Little Rock, Ark.; R. E. Collins, E. R. Chappell and J. B. Myers are named as incorporators. Headquarters, Eldon, Mo. The projected line traverses Barton, Dade, Cedar, Polk, Hickory, Camden, Morgan and Miller Counties.

KANSAS, OKMULGEE & GULF.—Okla.—A charter has been granted to the Kansas, Okmulgee & Gulf Railroad Co., capital $2,500,000, to build a road from Kansas City to a point on the Red River in the Choctaw Nation. Incorporators are: Fred. H. Smith, W. W. Witten, W. M. Jackson, of Okmulgee; J. M. Owen, W. R. Taylor and M. L. Blackwelder, of Oklahoma City, and others. A branch line is to be built from Okmulgee to this portion of Oklahoma. The length of the lines, including main and branch lines, is 560 miles. It is said that line will be continued to Gulf of Mexico under another charter.

LAWRENCEVILLE & WESTERN.—Va.—This company has incorporated to build a railroad from Lawrenceville northwest to Cochran, 6 miles, where connection will be made with the Seaboard Air Line. No contracts have as yet been let. Prospects of building are said to be favorable. E. P. Buford, Lawrenceville, Va., is Pres.; Frank Buford is Secy.

NEW MEXICO MIDLAND.—N. Mex.—This company has been organized with a capital stock of $500,000 to build a railroad to coal fields near Carthage, N. Mex. It is stated that the Colorado Fuel & Iron Co. is interested in this project. Principal office of the railway company is at Santa Fe, N. Mex.

STREET AND ELECTRIC RAILWAYS.

ROCKLAND, MASS.—The survey for the Plymouth County Street Railway, which will run from Rockland through Hanover, Pembroke, Marshfield and Duxbury to Plymouth, is now being made, and it is expected that the work will soon be completed.

ITHACA, N. Y.—Bids are asked until Oct. 20 for construction of two and one-fifth miles of electric railway at Ithaca. Bids will be received for the grading, track work and overhead construction separately, or for all combined. For specifications address C. L. Crandall, Engr., Ithaca. (Advertised, Engineering News.)

SPRING LAKE, N. J.—Work on the trolley extension from Spring Lake to Sea Girt will begin Oct. 15, it is said.

HARRISBURG, PA.—The Tarentum & Brackenridge Street Ry. Co. has been incorporated with $50,000 cap. stock to build a line from Tarentum to Brackenridge, a distance of 2½ miles. William White, Jr., of Pittsburg, is Pres.

WASHINGTON, PA.—Complete rights of way have been secured by ex-Senator Wm. Flinn and others, of Pittsburg, for a trolley line from Washington to Library, Pa. Est. cost, $900,000.

DANVILLE, IND.—The grading for Indianapolis-Danville-Rockville Electric Railway has been completed between the first two points, and bridges are now being put in. The rails will be laid early next spring and equipment installed.

CONNERSVILLE, IND.—Local capitalists may build an electric line to the Fayette County fair grounds.

BLOOMINGTON, ILL.—The Decatur, Clinton & Bloomington Interurban Ry. Co. has been incorporated by Harry Shlaudeman, Decatur; Edwin Weld, Clinton, and others. ~~Bloomington will be the main headquarters~~, and the power house will be built at Clinton. Right of way has been secured, and it is expected that work of construction will begin soon.

BELVIDERE, ILL.—The work of surveying the route of the proposed electric line from Belvidere to Elgin will be done this fall. The present plans are to build a road from Belvidere to Elgin, passing through Morengo, from that place a branch line will extend to Harvard. Congressman Fuller, of Sterling, is interested.

SPRINGFIELD, ILL.—The Alton & Southern Railroad Co., which was incorporated Sept. 8, with P. Barton Warren, of this city, and W. J. Lawler and Chas. F. Matthew as incorporators, filed a certificate for change of name to the Alton, Granite City & St. Louis Traction Co. and an increase of capital stock from $100,000 to $3,000,000.

OMRO, WIS.—Incorporation papers have been filed for the Oshkosh & Western Electric Ry. Co., organized to build an electric line from Omro to Berlin, a distance of 22 miles, and operating cars from Oshkosh to Berlin. The articles are signed by J. H. Porter, Oshkosh; Clement C. Smith, of the Columbia Construction Co., Milwaukee; Attorney Geo. Hilton, Oshkosh, and C. S. Morris, of Berlin.

DES MOINES, IA.—Survey of St. Joseph, Albany & Des Moines Interurban Railway has been completed from St. Joseph, Mo., into Des Moines. The route is about 185 miles in length. Several spurs were also surveyed to towns located near main line. The route through Iowa is from the Missouri state line to Mount Ayr, Creston, Macksburg, Wintersat, Cumming and Des Moines. F. S. Mordaunt, promoter, has leased property near Market and West Ninth St., in this city, upon which to erect a freight depot. The new freight depot will be a brick structure 45 × 300 ft., with double freight tracks and a driveway.

STILLWATER, MINN.—The Twin City Rapid Transit Co. will extend its system to South Stillwater. Work will begin early in the spring and pushed to completion. W. D. Dozier, of Minneapolis, is Ch. Engr.

KANSAS CITY, MO.—A charter was granted in Topeka, Kan., to the Bonner Springs & Kansas City Electric Ry. Co. The purpose of the company is to build a line from Bonner Springs, Kan., which is 18 miles west of Kansas City, directly into Kansas City. A branch will also be built to Forest Lake, two miles south of Bonner Springs. The main purpose of the road is to boom Forest Lake, making it a modern summer and fishing resort. The officers of the company are: John McDaniels, Bonner Springs, President; H. S. Burgin, City, Vice-President; W. H. Smith, City, Secretary. Contracts have been let and grading will begin at once. If the road is a success it will eventually be built through to Topeka. The offices of the company will be at 439 Sheidley Bldg., City.

FORT WORTH, TEX.—The Fort Worth Belt Ry Co. has increased its capital stock from $100,000 to $500,000. The object of this increase is to construct an extension of the road.

BROWNSVILLE, TEX.—The St. Louis, Brownsville & Mexico Ry. Co. has filed an amendment to its chapter, increasing its capital to $3,850,000. The increase of capital stock is to provide for construction and equipment of additional lines of road. B. F. Yoakum is at the head of the company.

MUSKOGEE, IND. T.—The Muskogee Electric Traction Co. is to build an electric railway in Muskogee, beginning at P St. on East Okmulgee, thence west to intersection of Cherokee and Okmulgee, north on Cherokee to Broadway, west on Broadway to 11th St., north on 11th St. to Court St., west on Court to Farmers' addition, south through Farmers', Higgins' and Garret's additions. The total mileage will be 4.69 miles. Ties will be placed 16 ins. between centers; tie specifications are 6-in. × 8-in. × 8-ft.; 60-lb. T-rail will be used also; 2-0 trolley wire and 4-0 bonds, also cedar poles, 6-in. top and 30 ft. in length. It is proposed to use single-truck cars, 20-ft. 6-in. bodies, with two 35-HP. motors. Contracts for construction work have not yet been let, but bids are now being received.

GRAND JUNCTION, COLO.—The County Commissioners passed a resolution granting to Geo. Smith the right to use the highway for an electric railway between Grand Junction and Palisades.

SEATTLE, WASH.—The Seattle, Everett & Skagit Electric Ry. Co. has been incorporated with $2,000,000 cap. stock. Franchises have been granted by King and Snohomish Counties. Edwin S. Gill, City, is Secy. Work will commence as soon as necessary details are completed.

BAKER CITY, ORE.—Isidor Fuchs and associates have petitioned the City Council for franchise to build a street railway line.

SAN JOSE, CAL.—A franchise to build an electric railway between this city and Palo Alto was asked of the Supervisors by Interurban Ry. Co. The line will start from the intersection of Stevens Creek road with Saratoga Ave., where the interurban lines now terminate, and thence along the Stevens Creek road to Stevens Creek, to Catholic Fathers' Villa. The board decided to grant the franchise. Bids for the franchise will be received Nov. 9. The Interurban Co. from the fathers' villa will build a road to Fremont Ave. and along the foothills past the site of new Santa Clara College to Stanford University.

BAKERSFIELD, CAL.—It is reported that the Southern Pacific is contemplating the construction of an electric line from Bakersfield to Guadalupe.

LIGHT, HEAT AND POWER PLANTS.

BURLINGTON, VT.—Bids are asked until Oct. 25 for installation of an electric lighting system, including interior wiring and fixtures, distributing system and electric current, at Fort Ethan Allen, Vt. Capt. T. B. Lamoreux, Q. M.

RUTLAND, VT.—Contract has been awarded to the Archibald-Brady Co., of Syracuse, N. Y., by the Chittenden Power Co., of Rutland, for the construction of a power house to cost $125,000. It will be built at Mendon and will be used in connection with the great reservoir that is being constructed at Chittenden.

BUFFALO, N. Y.—The Buffalo Lighting Co. has filed papers of incorporation. It is capitalized at $30,000. Company will engage in the manufacture and sale of lighting equipment. Directors are Norman and Luella McMillan and John E. Wesley, all of Buffalo.

NEW YORK, N. Y.—The Bronx Gas & Electric Co., Eighth St. and Ave. A, Westchester, will erect a new gas house, 37 × 168 ft., at Ninth St., corner Ave. A. It is stated that equipment, including blowers, small engines, gas purifying apparatus and other machinery, will be required.

ALEXANDRIA BAY, N. Y.—Power house in this village was wrecked by an explosion, according to press report. Value of plant estimated at $12,000.

PITTSBURG, PA.—J. G. Frazer, J. G. Evans and R. T. Rossell, of this city, have formed the Bessemer Electric Power Co., The Taylor Electric Power Co. and the Wilkins Electric Power Co., to supply electric power in Braddock township, Penn township and Wilkins township. Charters will be applied for Oct. 17. Reed, Smith, Shaw & Beal, City, are solicitors for incorporators.

HARRISONBURG, VA.—City has let contract to Heatwole & Van Pelt for construction of power house on Shenandoah River, at $4,420; to W. C. Switzer, at $8,700, for constructing 12 miles of transmission line from power station to town; also for installation of turbines, shafting, etc., at power plant, in connection with electric light and power plant.

WESTMINSTER, S. C.—This town is considering installation of an electric light system.

NEW ALBANY ,MISS.—W. F. and A. D. Wilcox, Engrs., of Jackson, will prepare plans and specifications for the $20,000 water-works and electric light plant to be established here. Bids for $20,000 of bonds for this work are advertised for in Engineering News.

COLUMBIA, MISS.—Franchise has been granted to M. & R. H. Hemphill, Hattiesburg, Miss., for the construction of water-works and electric light plant.

NEWARK, O.—J. C. Stewart, Supt. of municipal lighting plant, in an official report to Board of Public Service recommends the purchase of a 250-KW. a. c. generator and the installation of a series of alternating current arc lamps. An expert from the General Electric Co. is reported to have estimated that these improvements can be made for $14,000.

PORTLAND, IND.—City Council has voted to build and equip an electric light plant. Bids will be asked when plans are completed.

EVANSVILLE, IND.—City Engineer will prepare specifications for a new electric lighting contract for five years. Bids will be asked for soon.

MUNCIE, IND.—Company headed by Jerome Herff, Peru, Ind., will construct an artificial lake near West Muncie. It is proposed to erect and operate an electric power plant by means of an artificial water fall. Contract for work will be let at once, it is reported.

OTTUMWA, IA.—Black Hawk Electric Co., of Davenport, Ia., has been awarded contract for installing electric light plant for Public Water Co. Cost, $10,000.

Information concerning contracts to be let or supplies to be furnished, and corrections of errors and omissions in published items, are invited. Full details regarding the equipment, tools, etc., required for the proposed improvements are specially desired.

MONMOUTH, ILL.—Monmouth Gas & Electric Co. has been incorporated. Capital stock, $200,000. Company will operate a heat, light and power plant. Incorporators are W. A. Thompson, Charles B. Wood and Horace S. Oakley.

HAZEL GREEN, WIS.—See under Water-Works.

ST. JOSEPH, MO.—Site offered free to city by Union Terminal Co. for proposed municipal lighting plant probably will be accepted. It is located on Scott St., between Third and Fourth Sts. W. C. Stewart is Supt. city lighting plant. Final action will be taken at Council meeting that will be held on Oct. 10.

ALBUQUERQUE, N. MEX.—The Albuquerque Electric Power Co. has been organized her with capital stock of $50,000. Incorporators are William L. Iliff, William B. Childers and Edward Callen.

WALLA WALLA, WASH.—A modern power and light plant is being installed on the south fork of the Walla Walla River, about 15 miles from this city, to cost when complete $300,000. It will supply electric light and power for Walla Walla and Pendleton, Athena and Weston, Oregon. Samuel Storrow, of Los Angeles, Cal., is Constructing Engr.; N. Larson is superintending the work.

ELLENSBURG, WASH.—$22,000 of bonds have been sold for construction of a power plant.

MILTON, ORE.—J. H. Cunningham, 740 Chamber of Commerce Bldg., Portland, Ore., is understood to be building a 250-HP. power plant on the Walla Walla River for this place.

SILVERTON, ORE.—Plans are completed for the improvement of the plant of the Union Light & Power Co., on Silver Creek, near this place. Owing to the fact that the rainy season is about due, work has been postponed until next summer. The improvements consist of a new timber crib and framed dam 22 ft. high and 135 ft. long, new intake and about 2,900 ft. of 7-ft. wooden standpipe; also a new stand-pipe, wheels and governor. The work is estimated to cost about $50,000. J. H. Cunningham, Chamber of Commerce Bldg., Portland, Ore., is the engineer.

SAN JOSE, CAL.—Tuolumne Electric Co., R. W. Hersey, Pres., and C. W. Quilty, Secy., has created a bonded indebtedness of $60,000, the proceeds to be used for purchasing hydraulic and electric machinery and the construction of an electric plant. This action is the final step toward the completion of the plans for the erection of a large electric plant upon the Tuolumne River by San Jose capitalists that is to supply electric power to neighboring mines and the towns of Groveland, Big Oak Flat, Sonora, Jacksonville and Coulterville. Much work is said to have been done on the plant within the past 18 months and everything is ready for the installation of the machinery, to provide for which the bond issue is made. Cost of plant when complete is estimated at $70,000.

OCEANSIDE, CAL.—At a recent meeting of City Council the ordinance granting a gas and electric lighting franchise to John Johnston, Jr., was adopted.

GLOBE, ARIZ.—A press report states that final contracts between C. M. Clark and parties comprising the Globe Power Co. have been signed in Los Angeles. By contract Mr. Clark conveys to the Power Co. all water rights, rights of way, franchises, etc. Erection of the largest electric power plant in Arizona, with capacity of 8,000 HP., will soon be constructed. It will consist in part of a 30-ft. concrete diversion dam in Salt River below mouth of Cherry Creek. A tunnel will be constructed 7,015 ft. long, 10 ft. high and 13 ft. wide. A pipe line will cross river and convey water to canal about one mile above Pinal Creek, where power house will be built.

SALT LAKE CITY, UTAH.—Jas. J. Chambers, of Salt Lake City, is planning the installation of electric light plants in Big and Little Cottonwood canyons, a few miles southeast of Salt Lake City, it is reported.

LEWISTON, IDAHO.—Lewiston Gas Co. has been incorporated. Capital stock, $100,000. Directors: W. A. Aldrich, A. D. Jones, W. J. Thayer, of Spokane; H. C. Keyes, of Sacramento; W. F. Boardman, San Francisco. Site has been secured, franchise granted, the order for piping made and construction will soon commence.

FORT STEELE, B. C.—The Gold River Mining & Power Co. will install an electriv power plant on Bull River.

VANCOUVER, B. C.—Shareholders of the Stave River Falls Power Co. have decided to issue $900,000 of bonds. The proceeds will be devoted to developments that have been contemplated for several years. The falls are about 40 miles from New Westminster, B. C. It is estimated that 25,000 HP. is available.

FENELON FALLS, ONT.—Board of Water, Light & Power Commissioners for this village has closed a contact with the Ambursen Hydraulic Construction Co., of Boston, as engineers and contractors, for a power dam for municipal lighting plant in the Fenelon River. Dam is 200 ft. long and about 10 ft. high. It will be completed by Nov. 1.

BRIDGES.

PORTLAND, ME.—Mayor Baxter writes us that the United States Government has ordered the city to rebuild Vaughan's bridge. Est. cost, $400,000.

BOSTON, MASS.—Bids are asked by William Jackson, Cy. Engr., until Oct. 12 for steel superstructure of Atlantic Ave. bridge.

FALL RIVER, MASS.—A public hearing will be held here Oct. 18 to discuss the proposer construction of a new drawbridge over Taunton Great River, between Fall River and Somerset. J. H. Willard, Lt.-Col. Engrs., is in charge.

PITTSFIELD, MASS.—Plans and specifications for new bridge across Housatonic River have been completed. Cost, $7,500. The bridge will be constructed jointly by the city and Pittsfield Street Ry. Co., the latter to bear one-third of the expense.

UTICA, N. Y.—The United Construction Co., Buffalo, N. Y., has been awarded the contract for the erection of a new bridge across Mohawk River at Schuyler St. Cost, $6,780.

MARLBORO, N. J.—The New Jersey Bridge Co. was awarded the contract for building an iron bridge with 24-ft. span, 18-ft. roadway and concrete abutments in Marlboro Township. Alfred Hardy, of Morgansville, is Chn. Com.

PLAINFIELD, N. J.—The contract for iron work on new line bridge to be erected over Greenbrook on Mountain Ave. was awarded to W. T. Kirk Co. for $1,600.

SALEM, N. J.—Bids are asked by Board of Chosen Freeholders, Court House, until Oct. 12 for building a steel bridge in Alloway Township. C. C. Ford, Jr., Clk.; John F. Ayers, Dir. (Advertised, Engineering News.)

HARRISBURG, PA.—The Board of Public Grounds and Buildings has approved plans for a bridge over Connoquessings Creek, in Butler County, and one over Catawissa Creek, in Columbia County. Plans for a bridge to be built over Nescopeck Creek, Luzerne County, est. cost, $15,000, and two bridges in Union County, $9,500 and $9,000, respectively, were also approved.

HARRISBURG, PA.—Bids are asked by J. M. Shumaker, Supt. Pub Grounds and Bldgs., until Oct. 18 for rebuilding substructure and superstructure of bridge across Connoquenessing Creek, Butler County.

NORRISTOWN, PA.—County Commissioners awarded the contract for steel superstructure of bridge over Tacony Creek to the Eyre Construction Co., of Philadelphia, for $1,384.

PITTSBURG, PA.—The grand jury recommends the erection of a bridge over Licks run.

WILKESBARRE, PA.—City Council has passed a loan ordinance which provides for a foot bridge over East Market St. According to the ordinance $5,000 is allowed for the bridge. The Lehigh Valley and Central railroads will probably contribute additional sums.

NEWARK, N. J.—Bids are asked by the Essex County Park Commission, 800 Broad St., until Oct. 18 for the construction of concrete masonry bridge abutments, wing walls and piers at the Weequahic Reservation. Bids are also asked for furnishing and erecting a steel girder bridge across the tracks of the Lehigh Valley Railroad at the Weequahic Reservation. A. Church, Secy. (Advertised, Engineering News.)

HAGERSTOWN, MD.—Bids are asked by Washington County Commissioners until Oct. 18 for steel bridge and stone foundation at Rudolph Charles' mill. Jno. E. Wagaman, Clk.

NORFOLK, VA.—Contract for construction of the combination driveway and railway bridge which will span Indian River was let to McNichol Construction Co. for $7,000.

PETERSBURG, VA.—Armstrong & Latta, Philadelphia, Pa., have contract for building a bridge across Appomattox River.

ST. CLAIRSVILLE, W. VA.—The County Commissioners have decided to ask bids for construction of several bridges in the county. The location of the structures are as follows: A wooden bridge at Hendrysburg, a steel bridge over Captina Creek, a wooden bridge on Long Run near Dora, a steel bridge over Pipe Creek at Ramsey's, a steel bridge at Badgersburg, and a wooden bridge at Campbell's mills.

LOUISVILLE, KY.—Board Public Works has granted a permit to Louisville & Southern Indiana Traction Co. for construction of a steel viaduct from Louisville and Jeffersonville bridge to Wenzel and Franklin St.; cost, $200,000.

CINCINNATI, O.—City Engineer Stanley informed the Board Public Service that the proposed bridge over canal at Marshall Ave. will cost $6,200. The present masonry abutments are to be used. There are to be three girders, each 71 ft. long; two roadways, each 13 ft. wide, and two sidewalks, each 7 ft. wide. Council will be asked to pass an ordinance authorizing the bridge.

CLEVELAND, O.—Bids are asked by Board Public Service, 105 City Hall, until Oct. 24 for structural material and cast-iron of old Middle Seneca Street bridge. Plans and specifications can be seen at office of Chief Engineer. A. R. Callow, Secy.

GREENFIELD, O.—Bids are asked by Hancock County Commissioners until Oct. 8 for making approaches and fills to Wright bridge over Dilly Creek. Wm. I. Garriott, Audr.

LARUE, O.—The Cleveland, Cincinnati, Chicago & St. Louis has decided to build a new bridge over Scioto River to replace the present steel 100-ft. structure. G. W. Kittredge, of Cincinnati, is Ch. Engr.

MARIETTA, O.—The Marietta, Columbus & Cleveland Railroad Co. will rebuild a four-span Howe truss bridge over Little Hocking River. Total length, 504 ft. For plans and specifications address D. I. Roberts, Pres., City.

TOLEDO, O.—Bids are asked until Oct. 20 by County Commissioners for constructing superstructure of bridge on Central Ave. and superstructure of bridge south of Giannttown, both over Ten Mile Creek, in Sylvania Township, each to be 100-ft. span; for superstructure of bridge over Ten Mile Creek on Stickney Ave. in Washington Township, to be 125-ft. span; also for superstructure of bridge over Otter Creek in Oregon Township, to be 40-ft. span, and on Oct. 24 for constructing substructure of bridge on Central Ave., and substructure of bridge in section 19, both over Ten Mile Creek, in Sylvania Township; for constructing substructure of bridge over Ten Mile Creek, on Stickney Ave., and constructing 1,900 ft. protection wall in Washington Township; for constructing substructure and piling of bridge over Otter Creek, and for grading approaches for bridge at Case Farm, in Oregon Township; also for constructing an abutment for bridge at Weckerly Farm, and an abutment on stone road No. 33, at John Studer Farm, both over Swan Creek, in Waterville Township. D. T. Davies, Jr., County Audr. Date changed from Oct. 13.

INDIANAPOLIS, IND.—Contracts for construction of 19 bridges and culverts were awarded by County Commissioners Sept. 28. The National Bridge Co. obtained seven of the contracts and American Construction Co. five. The bridges are to range in cost from $250 to $2,800.

INDIANAPOLIS, IND.—Wm. Fife & Son have obtained the contract for the erection of the new concrete bridge over White River at Morris St. for $138,712.

LA PORTE, IND.—Bids are asked by La Porte County Commissioners until Oct. 7, at 10 a. m., for constructing three iron bridges and abutments. Chas. H. Miller, Audr.

NEWPORT, IND.—The commissioners of Vermillion county have awarded the contract for new bridge across Wabash River at Shirk's ferry to the Lafayette Bridge Co. for $29,000.

PERU, IND.—Bids are asked by County Commissioners until Oct. 7 for constructing a concrete and steel arch bridge near Converse, Jackson Township; also on Oct. 27 for constructing a steel bridge with concrete abutments in Washington Township. C. W. Macy, County Audr.

ROCKVILLE, IND.—The Commissioners Park County are receiving bids for the repair of Montezuma bridge over Wabash River in Reserve Township.

DECATUR, ILL.—Highway Commissioners have decided to rebuild the Moffitt bridge over Sangamon River south of the city.

PEKIN, ILL.—Board of Supervisors will hold a special meeting to consider an appropriation for a new bridge to be built across the river at East Peoria.

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SPRINGFIELD, ILL.—Bids are asked by County Clerk until Oct. 10, at 1.30 p. m., for building approaches to a bridge in Cotton Hill Township.

MILWAUKEE, WIS.—The Modern Steel Structural Co., of Waukesha, is the lowest bidder, at $14,7[illegible] for rebuilding Sixth St. bridge.

DULUTH, MINN.—The Northwestern Steel & Boiler Works, City, was awarded the contract by Board Public Works for construction of a bridge over Lester River for $10,390.

OLATHE, KAN.—The Kansas City, Burlington & Western will build a number of plate girder and trestle bridges along its road from Kansas City to Council Grove, including one large structure over Neosho River at Council Grove. A. L. Hartridge, Olathe, is Ch. Engr.

RAPID CITY, S. DAK.—Bids are asked by L. [illegible] Trowbridge, County Audr., until Oct. 15 for building a new bridge across Spring Creek.

ARROYA, TEX.—A steel bridge of the Southern Pacific over a branch of the Colorado River here was washed away. F. S. Edinger, San Francisco, Cal., is Supt. Bridges.

LAWTON, OKLA.—Contracts have been awarded by Secretary of Interior for 25 steel bridges to be erected in Comanche and Caddo Counties. The Virginia Bridge & Iron Co., Roanoke, Va., has the contract for building 15 bridges in Comanche County and two in Caddo County. The Springfield (Ill.) Bridge & Iron Co. will build six bridges in this county and two in Caddo County.

SOPRIS, COLO.—The $50,000 bridge here has been weakened by the flood and may fall.

KELSO, WASH.—A company has been formed to build a toll bridge across Cowlitz River here. Cost, $1[illegible], all of which has been subscribed.

EUREKA, CAL.—An order was made by Supervisors instructing the County Surveyor to submit plans and specifications for two steel bridges, also two wooden bridges to be built over Elk River on the main road leading to Field's Landing.

OAKLAND, CAL.—W. J. Schmidt, lowest bidder, was awarded the contract by Board of Supervisors for grading, draining and constructing bridges for $43,000.

WINNEPEG, MAN.—Bids are asked by W. G. Styles until Nov. 15 for building a bridge in municipality of Rosser.

BUILDINGS.

PORTLAND, ME.—Bids are asked by A. W. Yates, Q. M., 185 Middle St., until 12 m., Oct. 14 for the construction of 17 public buildings and alterations to one stone cottage, including plumbing, heating and electric wiring, at Fort Levett (Cushings Island), Maine.

FLUSHING (L. I.), N. Y.—Bids are asked until Oct. 17 by Maj.-Gen. Charles F. Roe, Brig.-Gen. James McLeer and Adjt.-Gen. Nelson H. Henry, composing the State Armory Comn., for the construction, heating, plumbing, electric light wiring and fixtures and gas piping for new armory for the 17th Separate Company in Flushing. Cost, about $70,000.

SCHENECTADY, N. Y.—Bids are asked by J. W. Smitley, Chn. Bldg. Com., until Nov. 17 for construction and completion of hospital buildings and Whitmore Home for Nurses for the Hospital Association. Work will be divided as follows for the hospital buildings: Mason work, carpenter work, roofing, painting and glazing, elevator, electrical work, plumbing and heating. The work on the Whitmore Home for Nurses will be divided the same as above, with the exception that no elevator will be required. Plans, etc., at office of H. W. Dennington, 2[illegible] State St., Schenectady, and at office of A. W. Fuller and W. B. Pitcher, Archs., Albany, N. Y.

ITHACA, N. Y.—Preliminary plans for proposed city and county building to be erected at Tioga and Seneca sts. have been approved by joint committee of aldermen and supervisors. Citizens will vote upon proposition to erect $250,000 building. O. H. Waltz, care of W. H. Miller, Arch., prepared plans submitted.

NEW YORK, N. Y.—Plans have been filed by H. Fonchaux, Arch., Broadway and 62d St., for a 6-story brick flat, 125 x 87 ft., on 114th St., west of Broadway, for Central Building, Improvement & Investment Co., 587 Lenox Ave. Cost, $225,000.

By Moore & Landsiedel, 158th St. and Third Ave., for four 5-story brick tenements, 37 x 88 ft., on Morris Ave., north of 161st St., for Union Ave. Realty & Construction Co., 7 Pine St. Cost, $160,000.

By Geo. F. Pelham, Arch., 503 Fifth Ave., for five 5-story brick tenements, 40 ft. irregular site, on Brook Ave., 139th to 140th St., for Stinsburg Realty Co., 245 Brook Ave. Cost, $210,000.

NEW YORK, N. Y.—Bids are asked until Oct. 17 for sanitary work and installation of electric equipment in two Brooklyn schools. C. B. J. Snyder, Supt. Bldgs., Bd. of Education.

Bids also will be received on that date for installing heating, ventilating and electric apparatus in several schools in Boroughs of Bronx, Manhattan and Queens.

NEW YORK, N. Y.—Bids are asked until 11 a. m., on Oct. 10, by C. B. J. Snyder, Supt. Bldgs., Bd. Education, for sanitary work, heating, alterations, etc., at several school buildings in Boroughs of Queens, Bronx and Richmond.

A school that will accommodate from 7,500 to 8,000 pupils will be erected on the site now occupied by School No. 137, in Grand St., between Ludlow and Norfolk Sts. Building will be about 175 x 80 ft., fireproof in all respects, with four elevator shafts, escalators, of stone and steel.

Paul B. Pugh & Co., builders, 101 West 66th St., will erect a 12-story apartment house, 100 x 157 ft., at 100th St. and Riverside Drive.

Armory Board has voted $14,000 to repair armories of Troop A, the 12th, 22d, 14th and 23d Regiments; $55,000 for lighting plant for the Seventh Regiment, $175,000 for additions to the 13th Regiment armory and $9,975 for quarters for the First Signal Corps in the 71st Regiment armory.

JERSEY CITY, N. J.—Raymond F. Almirall, Arch., 51 Chambers St., New York, and Clinton Mackenzie, same address, will prepare plans for a new hospital to cost about $200,000. Gordon K. Dickinson, Pres. Bd. Health, may be addressed.

CAMBRIDGE SPRINGS, PA.—T. Ed. Cornelius, Ferguson Bldg., Pittsburg, has prepared plans for a hotel to be erected at this place, for the New Highland Hotel Co., Pittsburg. Three stories, cement block walls, fireproof, 100 x 190 ft., and probably two wings of same length. It will contain 160 rooms. H. A. Blackstone, Pittsburg, may be addressed. Cost, about $90,000.

PITTSBURG, PA.—Alden & Harlow, Farmers' Bank Bldg., Arch., have prepared plans for a hotel for W. L. Abbott, Westinghouse Bldg., and others, it is stated. Probably will be six stories, fireproof, of brick and steel construction, elevators, gas and electric lights, steam or hot water heat, etc. Cost to be about $125,000.

PITTSBURG, PA.—Geo. H. Shickler, Arrott Bldg., City, will erect 24 dwelling houses in Belmar Place, with complete bath rooms. Cost, $3,200 each.

Church will be erected by W. Harry Brown, care W. H. Brown's Sons, City, and others, trustees of the Mary S. Brown Memorial M. E. Church, Squirrel Hill. Cost, $7[illegible],000.

H. & A. Hartje, care Hartje Paper Co., City, will erect large 10-story white terra cotta front warehouse at Wood St. and First Ave., City. Cost, $100,000. Architect is Chas. Bickel, 324 Penn Ave.

BROWNSVILLE, PA.—Bids are asked by the Fayette Engineering & Contracting Co., 602 First National Bank Bldg., Uniontown, Pa., until 3 P. M., Oct. 8, for construction of a 3-story brick hotel on the site of the old Girard House, Brownsville. Bids will be received for the work as follows, the stone and brick work being reserved: All wood work, plastering, etc.; plumbing and heating. Plans and specifications can be seen at office of the Fayette Engineering & Contracting Co.

AVALON, PA.—Congregation of the Avalon Presbyterian Church will erect new church on present site. Plans have been submitted. Cost, $35,000.

WASHINGTON, D. C.—Hill & Kendall, Archs., Corcoran Bldg., write us that plans are under consideration for additions to the Ontario apartment house, Lanier Heights, that will be known as sections 2 and 3. The additions will be six stories high, of brick and stone, and thoroughly fireproof. Estimated cost, about $2[illegible]0,000. Previously noted.

BALTIMORE, MD.—Mercantile Warehouse Co. has been incorporated by Albert G. Ober, Lloyd L. Jackson, William G. Scarlett, Andrew C. Trippe and Reuben Foster. Capital, $50,000. Company is interested in project to erect a public storage warehouse.

John Waters has contract for a 7-story building at Calvert and Fayette Sts., for Baltimore News Co. The cost is estimated at $130,000. Baldwin & Pennington are Archs.

CHARLESTON, W. VA.—Contract for erection of new bank and office building for the Charleston National Bank was awarded to A. F. Witherow & Co., Charleston. Cost, $125,000.

COLUMBUS, S. C.—Bids are asked until Oct. 20 for erection of administration, dormitory and other buildings for Columbia College, Columbia. A. W. Todd, Archt., Charleston, S. C. E. O. Watson, Pres. Bd. Trusteees, Spartanburg, S. C. Cost, about $100,000.

ATLANTA, GA.—The Atlanta College of Physicians and Surgeons will erect new buildings at Butler and Armstrong Sts. Cost, $100,000. Hunter P. Cooper is Chn. of Com.

ATLANTA, GA.—George W. Levi and Dabney Scoville, proprietors of Hotel Marion, have had plans prepared for a 6-story hotel. Cost, $75,000. G. L. Norrman is the Arch.

MONTGOMERY, ALA.—Nicholas Ittner, Atlanta, Ga., has been awarded contract to erect hotel for the Montgomery Hotel Co., Clifford A. Lanier, Secy. Contract price, about $250,000. W. F. Denny, of Atlanta, is Arch.

PINEVILLE, LA.—Board of Commissioners of the Louisiana Hospital for the Insane have let contract to E. T. Elam for erection of three 3-story brick buildings, at $47,785.

GREENEVILLE, TENN.—Bids are asked by James Knox Taylor, Supervis. Arch., Treas. Dept., Washington, D. C., until Oct. 27 for the low pressure steam heating apparatus complete in place for the U. S. post office and court house. (Advertised, Engineering News.)

MEMPHIS, TENN.—Tennessee Trust Co. has awarded contract for construction of a 15-story office building, on Madison St., to the Selden Breck Construction Co., of St. Louis. The Memphis Trust Co. is razing two brick buildings on Main St. Upon this site a 16-story building will be erected.

CLEVELAND, O.—Hubbell & Benes, Archs., Citizen Bldg., have plans for a new East End Baptist church, that will be erected at North Logan and Euclid Aves. It will be a stone structure. Cost, $100,000.

CINCINNATI, O.—Gustave W. Drach, Arch., is preparing plans for a 12-story concrete building to be erected at Fourth and Elm Sts. for the Harrison estate. C. L. Harrison may be interested.

INDIANAPOLIS, IND.—Mathis Bros. & Co., Chicago, were the lowest bidders for construction and installation of the heating plant at the new Shortridge High School, at $19,870.

BATTLECREEK, MICH.—Geo. L. Harvey, 175 Dearborn St., Chicago, is reported to be taking figures on an office building, to be erected at Battlecreek, for estate of Joseph N. Ward. To be six stories with basement, 67 × 178 ft., steel structure, fireproof construction have composition roof, steam heat, etc. Cost, $150,000.

HART, MICH.—Bids are asked by Burt Wickham, Secy. Building Com., until Oct. 10 for erecting a Masonic temple.

FLINT, MICH.—Bids are asked until Nov. 9 at Washington, D. C., by Treasury Dept., for the construction (except heating apparatus) of the post office at Flint. James Knox Taylor, Supervis. Arch.

DETROIT, MICH.—Six bids were received for remodeling city hall, as follows: Paul Wenzel, $149,650; Teakle & Golden, $170,500; Vinton & Co., $183 965; W. H. Travis, $179,335; Andrew Dall & Son, $174 802; Carew & Chase, $180,985. $150,000 was amount of appropriation.

CHICAGO, ILL.—Benjamin H. Marshall, Arch., Cable Bldg., will prepare preliminary plans for a theater to be built on the east side of Plymouth Pl., south of Jackson Boulevard, for Joseph E. G. Ryan and Joseph M. Weber. It will be built upon same plan as former Weber & Fields' New York theater, a 3-tier house, of fireproof construction, with steam heat, electric light, marble and mosaic work, and all latest improvements. Seating capacity, including forty boxes, of 1,200. Cost, $200,000. The details are not yet determined. Work is to be begun next April and building is to be completed by Sept. 1, 1905.

Julius Speyer, Arch., 164 La Salle St., is receiving bids for an apartment building, to be erected on Grand Boulevard, near 38th St., for T. E. Ryan. Three stories, 150 × 120 ft., brick and stone, have composition roof, steam heat, combination light fixtures, mantels and nickel plumbing, etc. Cost, about $100,000.

William J. Brinkman, Arch., Metropolitan Block, has let contracts for a laundry building to be built in connection with the new Home of the Good Shepherd at Seminary Ave. and Grace St. It will be a 2-story building, 100 × 120 ft., and cost $2[illegible] 000. Mr. Brinkman is preparing plans for other buildings in connection with the same institution that will cost eventually about $[illegible]. Previously mentioned.

A building containing 25 apartments is to be erected by S. Harnstrom at Kenmore and Balmoral Aves. It will be three stories high. Cost, $85,000.

E. A. Blondin, Arch., 5459 State St., is preparing plans for a bank and office building to be erected at State St. and Garfield Boulevard for the Citizens' Trust and Savings Bank that recently was organized. 50 × 100 ft., three stories. Cost, $100,000.

OAK PARK, ILL.—Bids are asked by Treasury Dept., Washington, D. C., until Nov. 2 for construction (including plumbing, heating apparatus, electric conduits and wiring) of the United States post office here. James Knox Taylor, Supervising Arch.

EVANSTON, ILL.—Bids are asked by Treasury Dept., Washington, D. C., until Nov. 1 for construction (including plumbing, heating apparatus, electric conduits and wiring) of United States post office here. James Knox Taylor, Supervising Arch. (Advertised, Engineering News.)

EVANSTON, ILL.—Atchison & Edbrooke, 90 Washington St., Chicago, will receive bids until Oct. 12 for erecting an apartment house on Ridge Ave. To be three stories, 86 × 171 ft., brick and stone, steam heating, marble walls, iron and steel beams, columns, combination lighting fixtures and nickel plumbing. Cost, $75,000.

EVANSTON, ILL.—It is reported that C. F. Metcalf, of Chicago, a speculative builder, will erect a group of 20 residences in Evanston after plans by A. L. Colcord, Chicago. The buildings will be two stories high, 25 × 70 ft. each, with fronts of brick and stone; hot water heat and hard wood finish. Total cost is estimated at $150,000.

ELGIN, ILL.—D. E. Postle, Arch., Marquette Bldg., Chicago, is reported receiving bids for a high school building to be erected here. Two stories and basement brick and stone, composition roof, steam heating, combination lighting fixtures, nickel plumbing, etc. Cost, $125,000.

JACKSONVILLE, ILL.—Sidney R. Badgley, of Badgley & Nichlas, 1273 Euclid Ave., Cleveland, O., has plans for a 1-story stone church, 100 × 120 ft., for the First Christian congregation. Rev. R. F. Thrapp, pastor, will receive bids until Oct. 25. Steam heat, iron and steel work, beams, columns, combination gas and electric light fixtures, etc. Cost, about $35,000.

WITTENBERG, WIS.—Bids are asked by W. A. Jones, Comr. Indian Affairs, Washington, D. C., until Oct. 25 for construction of a brick school building and brick dormitory, both with plumbing, steam heat and acetylene gas piping or electric light wiring, and water and sewer systems with acetylene gas piping or electric wiring for pump house, at the Wittenberg School.

DES MOINES, IA.—Contract for erection of the north wing of the science hall of Iowa State University was awarded to Rowson & Son, of Iowa City, $66,589. No time has been fixed for the completion of the work. Total cost of the new science hall, with the new wing, will be $230,000.

IOWA CITY, IA.—Proudfoot & Bird, of Des Moines, Ia., have been chosen as the architects to prepare plans for new engineering building to be erected at the Iowa State University at Iowa City.

SIOUX CITY, IA.—William Gordon, as Trustee for property owners, is quoted as saying that a $100,000 building will be erected at Sixth and Pierre Sts., instead of a $20,000 building as previously reported.

LAWRENCE, KAN.—Bids are asked by James Knox Taylor, Supervis. Arch., Treas. Dept., Washington, D. C., until Nov. 7 for the construction, including heating apparatus, electric wiring and conduits, of the U. S. post office. (Advertised, Engineering News.)

PIERRE, S. DAK.—Bids are asked until Oct. 26 for constructing and installing complete a steam heating system at Pierre School. W. A. Jones, Comr. Indian Affairs, Washington, D. C.

LARAMIE, WYO.—Francis Callahan, of Leadville, Colo., was awarded contract for post office building (heating apparatus excepted) at $74,503.

CHEYENNE, WYO.—Bids are asked until Oct. 12, 10 a. m., for constructing a poorhouse for Laramie County. Joseph Cahill, County Clk.

PORT TOWNSEND, WASH.—Bids are asked until 2 o'clock p. m., Oct. 10 for construction of an addition to the quartermaster and subsistence storehouse at Fort Worden, Wash. Geo. H. Penrose, Q. M.

PORTLAND, ORE.—A $60,000 train shed will be erected here by the Northern Pacific Terminal Co. at the Union Depot.

STOCKTON, CAL.—Beasley & Beasley have submitted preliminary plans to Council for the proposed city hall. It will be constructed of stone, brick and steel. Estimated cost, $145,000 for building and $5,000 for equipment.

COLORADO SPRINGS, COLO.—Darnevik & Currie, 21 North Nevada St., have received contract for erection of three frame buildings for the Cragmor Sanitarium Association, of which Dr S. E. Solly is Vice-Pres., and Thomas MacLaren, Arch. Plans call for a total expenditure of $375 000. About $100,000 will be expended next year on the 110-acre site near Austin's Bluff, north of this city.

PALO ALTO, CAL.—Mrs. Jane L. Stanford has let the carpenter work on the new 3-story stone and brick library building at Leland Stanford University to Wm. Thompson at $59,600.

LOS ANGELES, CAL.—Southern Pacific Ry. will tear down the Arcade and build on the site a $250,000 modern depot. Plans have been prepared and blue print copies have been forwarded to the general offices of the company at Chicago and San Francisco for approval. River Station is to be torn down and a $50,000 three-story structure reared in its place. Work on the $[illegible]0,000 depot for San Bernardino will be started in about three weeks.

LOS ANGELES, CAL.—The Woman's Home Missionary Society of Southern California Methodist Conference will erect a hospital in Los Angeles. $100,000 will be raised for that purpose.

SAN FRANCISCO, CAL.—Bids are asked until Oct. 24 for constructing additions to captains' quarters at Infantry Cantonment, Presidio of San Francisco, including plumbing. Wm. S. Patten, A. Q. M. G.

Contract has been awarded by the Crocker Hotel Co. to Mahony Bros. for erection of 11-story brick and steel stores and office building on Post and Grant Aves. Cost, $300,000.

According to the estimates of Maj. J. P. Wisser, Capt. G. P. White and Capt. L. R. Burgess, the board of army officers detailed to investigate and recommend a site for new artillery barracks at the Presidio, the cost of such new barracks will amount to $9[illegible].

OTTAWA, ONT.—Bids are asked until Oct. 24 for all work (except heating) necessary in constructing Royal Victoria Museum for Department of Public Works. Plans can be seen only at the office of this department. It is estimated that the building will cost about $1,000,000.

GALT, ONT.—General bids or bids for separate portions of the work will be received by Thomas Carscadden, Secy. Collegiate Institute Board, until Oct. 17 for erection and completion of a proposed Collegiate Institute building on the site of the present building, formerly the Dr. Tassie School. Drawings and specifications can be seen, and all other information obtained at Galt, also at offices of the architects, Stewart & Witton, Hamilton, Ont.

Information concerning contracts to be let or supplies to be furnished, and corrections of errors and omissions in published items, are invited. Full details regarding the equipment, tools, etc., required for the proposed improvements are specially desired.

WATER SUPPLY AND IRRIGATION.

BRISTOL, VT.—Town may purchase plant of Rock Spring Water Co., or install works of its own.

HARTFORD, VT.—Village is reported to be considering means for obtaining water supply.

WINOOSKI, VT.—Committee has been empowered to secure engineer to aid in securing water supply for this village.

HOLDEN, MASS.—This town recently voted install water-works, and we are informed that Board of Water Commissioners to have charge of the matter will be elected at November town meeting. Source of proposed supply is at Rutland, four miles distant, and est. cost of system is $50,000. S. W. Armington is Town Clk.

PROVIDENCE, R. I.—Committee from town of North Providence has been conferring with Walter F. Slade, Comr. Pub. Wks., in regard to having this city lay mains to supply to the town. Estimated that pipe system could be put in for about $25,000.

PAWTUCKET, R. I.—City may install new pumping engine.

COHOES, N. Y.—It is stated that at least two companies were to present propositions to Water Board Oct. 3, for construction of filter plant at No. 3 Reservoir.

NEW YORK, N. Y.—John T. Oakley, Comr. Water Supply, Gas and Electricity has submitted plan to Mayor McClellan to increase city's water supply by 600,000,000 gallons per day, at an estimated cost of about $9[illegible],000,000. The plan suggests taking water from Esopus, Schoharie and Catskill Creeks. Some of the larger items of cost are as follows: Reservoir at Esopus Creek, $10,000; 70-mile conduit to the Bronx, $35,000,000; reservoirs and mains to supply Brooklyn and Queens, $7,200,000; conduit to Astoria, $9,200,000, and engineer's fees and contingencies, $11,835,000.

WHITE PLAINS, N. Y.—Water Commissioners have let contract for building two intercepting wells to S. W. Smith's Son for $6,840.

VICTOR, N. Y.—Water-works agitated.

NEWTON, N. J.—Bell Engineering & Construction Co., 220 Broadway, New York, has been awarded contract for constructing storage reservoir for this town for $7,286. Bids were opened Sept. 19.

PERTH AMBOY, N. J.—J. S. Mason, Engr., has prepared preliminary plans for new intake to be built at Runyon at an est. cost of $3,500.

STANHOPE, N. J.—Town may vote to issue $10,000 of bonds for installing water system. Supply will be obtained from Rockland Water Co.

JAMESTOWN, PA.—Bids are asked by John O'Donnell, Council Committee, until 2 p. m., Oct. 10 for constructing 100,000-gallon steel tank; also for excavating and laying 18,000 ft. 3 to 6-in. pipe and 24 fire hydrants.

STEWARTSTOWN, PA.—Stewartstown Water Co. has been chartered with $8,000 capital. Allen I. Frey and J. M. Wilson are interested.

WILMINGTON, DEL.—Bids were received by Board Water Commissioner, Sept. 26, for building filtration plant and extensions of water system. Work was divided into seven contracts and lowest bids on each of these are as follows: Basins and filter beds, Manufacturers' Construction Co., Wilmington, $414,422; laying and furnishing conduits and pipes from Rockland to Wilmington, R. A. Malone, Lancaster, Pa., $249,051; furnishing machinery, D'Olier Engineering Co., Philadelphia, $32,470; supplying pipes and specials, R. D. Wood & Co., Philadelphia, $59,800; supplying valves, D. W. Thomas, $13,739; constructing reservoir at Eighth and Rodney Sts., R. A. Malone, Lancaster, Pa., $80,750; furnishing smokestack for station, M. W. Kellogg & Co., $2,850. The complete bids for this work are given under Contract Prices.

BALTIMORE, MD.—Mayor Timanus has approved outline of plan submitted by John E. Semmes, of Water Board, providing for large storage reservoir between city and Loch Raven.

Water Board was to decide Sept. 29 on site for high service reservoir.

Baltimore County Water & Electric Co. has been negotiating with Council for sale of that part of its plant lyng within city limits.

WASHINGTON, D. C.—Isthmian Canal Commission has let contract to U. S. Cast-Iron Pipe & Foundry Co., New York, to furnish 43,000 tons of pipe. Material is to be delivered at Colon.

BARTON HEIGHTS, VA.—Contract for new gasoline engine and pumps for this place has been let to Harman & Bacher, Richmond, Va.

EMPORIA, VA.—Following bids were received Sept. 29 for constructing water-works and sewerage for this town; Chas. S. York, Consult. Engr., Baltimore, Md.: Thos. A. Barry & Co., Richmond, Va., $29,968; Abbott Gamble Co., New York, $31,728; H. C. Brooks, Fairmount, W. Va., $27,669; C. L. Olds Constr. Co., Ft. Wayne, Ind., $27,785; W. H. Goodwyn, Emporia, Va., $28,163; Ford & Demot, Lynchburg, Va., $26,257; Joe Guild & Co., Chattanooga, Tenn., $26,703; Stone, Grossett & Co., Philadelphia, Pa., $29,320; W. G. Morris, Phoebus, Va., $ 8,7 9; Wm. H. Baughman, Pittsburg, Pa., $30,211; H. A. Miller, Wilmington, $31,859; E. L. Mathis, West Point, Va., $25,858.

PORTSMOUTH, VA.—Portsmouth, Suffolk & Berkley Water Co., may extend their mains to Fort Norfolk, if sufficient number of takers of water are secured.

TENNILLE, GA.—Town votes Oct. 25 on $8,000 bond issue to be used for improving water-works and purchase of electric light plant.

MONTGOMERY, ALA.—Bids are asked until Oct. 14 for furnishing and delivering between 30 and 40 miles of 4-14-in. pipe, with special castings. (Advertised, Engineering News.)

MAGNOLIA, MISS.—Bids are asked until Oct. 11 for constructing water-works for this place. Work consists of furnishing cast-iron pipe and special castings, valves, boxes and hydrants; furnishing and erecting tower and tank; furnishing pump; constructing reservoir; constructing building; constructing pipe line; installing pump; furnishing materal and sinkng 8-n. tubular well. Specifications for above work are on file at office of Engineering News, 220 Broadway, New York. Xavier A. Kramer & Co., Engrs.; L. L. Lampton, Chn. W.-W. Com.

NEW ALBANY, MISS.—W. F. and A. D. Wilcox, Engrs., Jackson, Miss., are to prepare plans and specifications for $20,000 water and electric light plant. Plans and specifications will be ready by Oct. 20.

KNOXVILLE, TENN.—We are informed that further proceedings for complete water-works for this city have been suspended pending hearing of application for injunction. Plans and specifications are ready, but commission is at present enjoined from calling for bids. Norman B. Morrell is Secy. Comn.

CINCINNATI, O.—Keeling & Ridge, Pittsburg, Pa., were awarded contract Sept. 27 for completing new waterworks reservoir. Contract prices were $719,000.

COLUMBUS, O.—Woollen & Callen, Indianapolis, Ind., were awarded contract, at $52,800, for equipment of pumping station at sewage disposal plant.

ELYRIA, O.—$50,000 appropriation to be used largely for increasing reserve power at pumping station is reported under consideration.

ST. PARIS, O.—Works agitated.

ZANESVILLE, O.—Board Public Service has been instructed to secure plans and specifications from two or more filtration companies for installing plant for this city.

CRESTLINE, O.—The Mayor writes that projected water-works improvements will be made at est. cost of $75,000. Contracts will be let early in December. Walter P. Rice Engineering Co., Cleveland, O., is Des. Engr.

JEFFERSONVILLE, IND.—Jeffersonville Water Supply Co., Capt. D. M. Allen, Supt., is reported to be ready to spend $25,000 for improvements, provided city will pay its back water bill.

CHICAGO, ILL.—Plans and specifications have been completed by City Engineer's office for a new superstructure for the Lake View water-works crib. The structure will be circular in shape, with a diameter of 72 ft. and will be 40 ft. high,* exclusive of the lighthouse tower. It will contain eight living rooms for the keeper and crew. The cost is estimated at $75,000.

MOLINE, ILL.—Eleven manufacturing plants are stated to have united to put in fire protection water system to cost about $20,000. Harry Ainsworth, of Williams, White & Co., is interested.

SUMMIT, ILL.—Bids are asked by Village Trustees until Oct. 19 for constructing water-works. Approximate quantities are: One drilled well, deep well pump and gasoline engine, 60,000-gallon water tower, pump house, one mile 6-in. water mains, 12 hydrants. Plans and specifications at office Wm. B. Ewing, Consult. Engr., 1003 Chamber Commerce, Chicago, Ill.; Jas. Johnstone, Village Clk.

HAZEL GREEN, WIS.—Bids are asked until Oct. 10 for constructing water-works and electric light plant to cost $6,000. John F. Walsh, Village Pres.

KIEL, WIS.—Bids are asked by the Village oard until Oct. 26 for a 75 ft. steel tower and 60,000-gal. steel tank, one deep well centrifugal or rotary pump, one high lift turbine pump and one 25-HP. gasoline engine. Plans, etc., may be seen at the offices of Engineering News, in the Monadnock Bldg., Chicago, Ill., and 220 Broadway, New York, after Oct. 16. W. G. Kirchoffer, Engr., Madison, Wis. (Advertised, Engineering News.)

WITTENBERG, WIS.—Bids are asked by W. A. Jones, Comr. Indian Affairs, Washington, D. C., until Oct. 25 for constructing water system at the Wittenberg School.

WINTHROP, MINN.—We are informed that contracts were not awarded Sept. 26 for water-works and electric light plant improvements, and the work will be readvertised later on. The bond issue recently voted was found to be illegal and another special election will be held Oct. 10. J. F. Johnson, Gibbon, Minn., is Des. Engr.; C. A. Schilling, Village Clk.

KANSAS CITY, KAN.—Council is stated to have passed resolution directing M. J. Reitz, Cy. Atty., to bring mandamus proceedings against the Metropolitan Water Co. to force it to comply with the provisions of its franchise and to furnish better water and service.

GALENA, KAN.—City is reported to have begun suit against Galena Water-Works Co. for purchase of its plant.

PITTSBURG, KAN.—The Pittsburg Water Supply Co. has decided to make more extensive improvements in its water-works plant than first contemplated. New boilers will be installed, a new stack built and the pumping station remodeled. W. K. Palmer, Consult. Engr., 718 Dwight Bldg., Kansas City, Mo., has the contract for engineering services, including supervision of construction.

BENSON, NEB.—Committee, Benjamin Morton, Member, has been appointed to investigate matter of installing municipal water-works.

OSCEOLA, NEB.—Mayor Keene Ludden writes that they expect to spend about $20,000 for water plant and mains. It is hoped to be ready to let contracts about Dec. 1, so that work can be commenced in the spring. Stand-pipe will probably be erected and 200 ft. deep well sunk. Population is 1,000.

CRAWFORD, NEB.—Andrew A. Carlson and Neils Rasmussen propose, it is stated, to expend about $6,000 in improving their irrigaton dtches.

WISNER, NEB.—City votes to issue $5,000 of onds for erecting stand-pipe and extending water system.

LIVINGSTON, MONT.—George H. Hill, Helena, Mont., has applied for franchise of city for water, light and power plant.

GALVESTON, TEX.—Construction of another water supply main across the bay from Alta Loma to this city is advocated. It is estimated that duplicate to present 30-in. main could be laid for $114,000. H. C. Lange is Comr. W.-W.

RUSK, TEX.—Steps may be taken soon for establishment of water-works here.

DEMING, N. MEX.—Col. P. R. Smith, of Deming Real Estate Development Co., is stated to have negotiated sale of $50,000 of bonds for construction of water-works here.

SANTA FE, N. MEX.—Local reports state that Frank Owens, Mgr. Santa Fe Water & Light Co., will improve the system by replacing the old fire hydrants with new, installing larger mains and increasing capacity of reservoir. Concrete bottoms will be placed in the two reservoirs; 15,000 ft. of cast-iron pipe has been ordered from Dimmick Pipe Co., Bessemer, Ala.

MEEKER, COLO.—Town has voted to issue $60,000 of bonds for gravity water-works. Supply is to be from White River, and will have head of 264 ft

GREELEY, COLO.—Greeley Land & Water Co. has been incorporated with $100,000 capital, and proposes to irrigate land mainly by water raised from wells by gasoline pump. George Scheidemaniel, Denver, Colo., is Pres., and Henry S. Evans, Denver, is Secy.

SEATTLE, WASH.—Pacific Coast Pipe Co., at $13,973, was low bidder, Sept. 24, for water mains in Dravus St.

RITZVILLE, WASH.—It is reported that John L. Brown proposes to form company with $150,000 capital to supply this place with water, supply to be taken from Colville Lake and piped 17 miles to this city.

ROCKFORD, WASH.—Town will vote Oct. 29 on installing water system, consisting of pumping plant, tanks and mains at cost of about $8,637. System would require about 6,000 ft. wire-bound wood pipe, 16-HP. gasoline engine, etc.

SEATTLE, WASH.—Ordinance is reported to have been before Council directing Board Public Works to advertise for purchase of 5,000 meters to cost about $7,000.

WENATCHEE, WASH.—Council has let contract for 600,000-gallon reservoir to Bailey & Co., Wenatchee, for $6,000.

EUGENE, ORE.—C. W. Washburne and T. J. Dorsey reported interested in formation of irrigation company.

MONROVIA, CAL.—Trustee Williams, Chn. Water Committee, has advised bond issue to cover following items: Auxiliary pumping station, $4,000; city hall, library, jail and fire house, $10,000; purchase of water meters, $5,000; relaying and replacing cement and iron pipe, $3,000; roofing and repairing reservoirs, $6,000; machinery at wells, $10,000; water-bearing lands, $10,000; fire apparatus, $2,000; electric light and power house, $15,000.

SANTA ANA, CAL.—Special election will be held to vote on bond issue for improving and extending municipal water system .

WATSONVILLE, CAL.—The Mayor writes that they have bored a test well which has been sunk 146 ft. and it is believed that a sufficient supply can be developed. Plans and specifications have not been prepared as yet.

BENSON, ARIZ.—Local reports state that Southern Pacific Ry Co. will probably sink five wells, three of which are to be at this place.

PHOENIX, ARIZ.—Paradox Valley Irrigation & Land Co. has been incorporated with $200,000 capital. Principal office is to be at Montrose, Colo.

LEHI, UTAH.—It is stated that concrete and cement dam, 15 ft. high, is to be placed across outlet of Silver Lake in American Fork Canyon, to impound reservoir for irrigation purposes. Morgan Evans, Pres. Lehi Irrigation Co. is interested.

SALT LAKE CITY, UTAH.—F. L. Hines, Supt. W.-W., writes us under date of Sept. 26 that matter of purchasing 5,000 meters is now in hands of water-works committee.

NORTH SYDNEY, N. S.—Town will borrow $30,000 for extending water-works and sewer system.

AMHESSTBURG, ONT.—By-law to borrow $6,000 for installing new water-works pump and other improvements will be voted on Oct. 18.

RED DEER, N. W. T.—Vote will be taken on by-law to issue debentures for installation of water-works for fire protection and domestic purposes.

VANCOUVER, B. C.—We are informed that about $140,000 worth of extensions to existing water mains of this city is required, but no funds are available. It is probable that a by-law will be voted on at the civic election Jan. 12 to raise the required amount. Thos. H. Tracy is Cy. Engr.

SEWERAGE.

WATERBURY, CONN.—Bids are asked until 4 p. m. Oct. 7 for construction of sewers in portions of North and South Willow Sts. R. A. Cairns, Cy. Engr.

WATERTOWN, N. Y.—Henry E. Bayer, Cy. Engr., informs us that bids were received on Sept. 29 for construction of storm water sewer. C. C. Burns, of Watertown, was awarded contract. Bid was $27,173 for standard pipe and $28,905 for using double strength pipe. Other bids were: (a) standard, (b) double strength: Caswell & Hodge, (a) $36,544; (b) $38,376; Haley, Ward & Co., (a) $27,920; (b) $29,640. All were local bidders.

BROOKLYN, N. Y.—Bids are asked by Martin W. Littleton, Boro. Pres., until Oct. 19 for constructing sewers in 28th St. and 62d St.

Local Boards of Improvement of Flatbush and Bushwick sections will ask Board of Estimate for $400,000 appropriation to extend sewer systems next year.

JOHNSTOWN, N. Y.—O. Hurst, of Fort Hunter, was awarded contract at $7,574, for an intercepting trunk sewer. James L. Northrup is Mayor.

MANASQUAN, N. J.—Bids were received on Sept. 30 for constructing four miles of 12, 10, 8 and 6-in. pipe sewer, we are informed by Willis A. Mount, Boro. Clk. Contract was awarded to Wm. J. Smith, of Spring Lake, N. J. Pugh & Hubbard, Philadelphia, are the Engrs. Estimated cost, $20,000.

WASHINGTON, N. J.—$50,000 of bonds will be issued for sewer construction if approved by citizens.

CORRY, PA.—Bids are asked until Oct. 7, 5 p. m., for constructing sewers. Nevin R. Dickson, Cy. Engr.

WILLIAMSPORT, PA.—The Hughes St. sewer contract has been awarded to Busch & Stewart, at $3,156. William P. Beebe is Pres. Council.

SCRANTON, PA.—Bids are asked until 2 p. m., Oct. 7, for constructing system of sewers in Section "A," sixth sewer dist. B. T. Jayne, Dir. Dept. Pub. Wks.

GREENSBURG, PA.—Bids are asked until 8 p. m. on Oct. 8 for constructing sewer system. About 11,290 ft. of 20, 12, 10 and 8-in. sewer pipe will be required, also 16 manholes and 15 lampholes. S. G. Ebersole, Secy. Council. J. J. Neel, Engr.

ALLEGHENY CITY, PA.—Bids are asked by Jas. G. Wyman, Mayor, and Edward J. McIlvain, Director Dept. Pub. Wks., until Oct. 10 for constructing several sewers.

WASHINGTON, D. C.—Bids are asked by the Commissioners until Oct. 13 for constructing service sewers in the District of Columbia. Henry L. West, John Biddle, Comrs. (Advertised, Engineering News.)

NEW IBERIA, LA.—City has under consideration the installation of drainage pipe system. V. P. Guilfoux is Cy. Engr.

MARION, O.—When permission is granted by State Board of Health the city will commence the construction of a sewage disposal and garbage reduction plant. The Edson method will be used. Plant will cost about $50,000. The application is now before Secretary Probst, of the state board, the permission of the board's engineer having already been granted. As soon as Dr. Probst's permission is granted the work of construction will be begun. It is hoped to have the plant completed and in operation this winter.

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CLEVELAND, O.—It is reported that the question of reletting the contract for portion of the intercepting sewer east of Doan St., that originally was let to John W[illegible], at $80,000, is under consideration.

COLUMBUS, O.—Bids were received as follows for construction of sewage-disposal plant: Lawrence M[illegible] Co., Boston, $46,433; Saunders & Foote, Columbus, [illegible]470; Hoffman-Conklin Co., Columbus, 51,744; Woo[illegible] & Cannon, Indianapolis, $54,500; Fitzpatrick & Hoe[illegible], Columbus, $57,700.

INDIANA HARBOR, IND.—National Construction [illegible] of South Bend, has contract for construction of [illegible] sewage station here. Cost, $40,000.

NEW ALBANY, IND.—Bids are asked until Oct. 1[illegible] for constructing system of sewers. Estimated cost is $17[illegible]

WYANDOTTE, MICH.—Lennane Bros., of De[illegible], have made proposal to Council to install a complete sewer system in accordance with Mason L. Brown's plans as modified by Day & King. Firm's bid was $8[illegible]. Matter is now under consideration. Elton R. Nell[illegible] Mayor.

STERLING, ILL.—H. D. Hallett, of Aurora, was awarded contract for constructing portions of sewers in Second St. and Fifth Ave., at $6,335.

CHICAGO, ILL.—Bids are asked until Oct. 15 by F. W. Blocki, Comr. Pub. Wks., 222 City Hall, for all labor, materials and necessary appliances and for doing all brick and concrete masonry work required in constructing an intercepting sewage pumping station at 39th St. and the lake. It will be one story, 100 × 150 ft., with interior walls of enamel brick, tile roof, on steel trusses, tile floor, steam heat. Cost, $150,000. Exterior of the building will be granite; contract has been awarded.

Bids will be received by F. W. Blocki until Oct. 18, 11 a. m., for designing and constructing a tall chimney for the boilers at this sewage station.

CENTRALIA, ILL.—Contract for constructing pipe sewers here has been let to D. W. Norton & Co., Vincennes, Ind., for $15,803. Bids received Sept. 24.

DAVENPORT, IA.—Plans for a sewer to drain northern portion of city have been ordered drawn. It will be about 17,660 ft. long. Estimated cost, about $50,000.

RICHLAND CENTER, WIS.—Bids are asked until Oct. 17 for laying sewer in Church St. F. P. Lawrence may be addressed.

GLENWOOD, MINN.—Bids are asked until Oct. 7, 7 p. m., for constructing sewers and a steel concrete septic tank. Loweth & Wolff, Consult. Engrs., St. Paul. Ole Rigg, Village Recorder.

ST. PAUL, MINN.—The Ohio St. sewer extension system will cost $46,400 according to City Engineer's estimate. Estimated cost of other sewers, as follows: Duke St., $3,475; West Delos St., $22,610; Beacon St., from Shields Ave. south to St. Anthony St., $1,775

BRAINERD, MINN.—Bids are asked until Oct. 17 for constructing lateral sewers in Dist. No. 1, as follows: (A) consisting of 570 ft. 10-in. sewer, 1,070 ft. 8-in., 95 ft. 6-in., seven manholes and two lamp holes; (B) 745 ft. 8-in. sewer, 95 ft. 6-in. sewer and four manholes; (C) 730 ft. 8-in. sewer, 105 ft. 6-in., three manholes and one lamp hole. F. E. Low, Cy. Clk.

WINONA, MINN.—Bids are asked until Oct. 17 for constructing sanitary sewer. Paul Kemp, Cy. Recorder.

MILFORD, NEB.—Bids are asked until Oct. 15 for construction of tunnel, sewer connection, installing steam heating apparatus and connection of same with sewerage and water supply at the Soldiers' and Sailors' Home. Geo. W. Marsh, Secy. of Board.

ROCKYFORD, COLO.—Bids are asked until 8 p. m., Oct. 24, for constructing a district sanitary sewer, together with all manholes, inlets and appurtenances, in sewer district No. 1. City engineer's approximate estimate calls for 38,781 lin. ft. of 8-in. pipe sewer; 1,637 lin. ft. 10-in. pipe sewer, 6,842 lin. ft. 12-in. pipe sewer, 124 manholes, 24 flushers, 2,335 6-in. Y's on 8-in sewer. 108 6-in. Y's on 10-in. sewer, 17 cu. yds. concrete for outlet wall, 100 cu. yds. excavation in shale, 50 cu. yds. excavation in rock and 2,000 ft. b. m. lumber, left in trenches. Robert M. Pollock, Mayor.

HOUSTON, TEX.—It is probable that $100,000 of bonds will be issued for improvements; $25,000 will be used for sewerage in the Third Ward and $17,000 for sanitary sewerage in Fourth Ward.

WEATHERFORD, TEX.—Bonds to amount of $25,000 for sewers that recently were voted for have been found illegal. Another election will have to be held.

SEATTLE, WASH.—Ordinance providing for the construction of the $87,000 trunk sewer through Ranier valley has been passed by City Council. The sewer will connect with the Lane St. sewer and run the entire length of Ranier valley and empty into the south tunnel.

COLVILLE, WASH.—At December election the question of issuing bonds for a sewer system will be submitted to voters.

SAN DIEGO, CAL.—Bids are asked until Oct. 20 by Board Public Works for furnishing city with 61,000 lengths 6 to 20-in. salt-glazed vitrified sewer pipe, Y's, etc. F. H. Dixon, Secy.

SAN PEDRO, CAL.—An ordinance has been passed providing for sale of $30,000 in sewer bonds in accordance with the recent special election. Bids will be received until Nov. 1.

SACRAMENTO, CAL.—A special election was to have been held on Oct. 5 to decide question of issuance of sewer and levee bonds.

LOS ANGELES, CAL.—Bids for constructing Section 1 of West Los Angeles main sewer were as follows (prices bid are for labor and minor supplies only, the brick pipe and cement being furnished by city): Ramish & Marsh, $71,035; Hausbrough & Herman, $64,180; Hickox & Martin, $57,644; P. A. Howard was awarded contract at $49,000. All were local city bidders. Work includes about 11,839 ft. of pipe sewers from 24 to 30 in. in diameter, and eleven manholes. Average depth of trench will be about 16 ft., to be excavated in clay and gravel; 7,450 ft. of this work is in tunnel about 60 ft. deep. H. F. Stafford is Cy. Engr.

GARBAGE DISPOSAL—STREET CLEANING

PORTLAND, ME.—Bids are asked by Capt. A. W. Yates, Q. M., U. S. A., until 12 o'clock, Oct. 12 for constructing crematory complete, including building, at Fort McKinley, Me.

DUQUESNE, PA.—Ordinance has been before council providing appropriation of $10,000 for garbage furnace.

PHILADELPHIA, PA.—Bids are stated to be asked by Peter Costello, Dir. Pub. Wks., until Oct. 10 for disposal of city garbage for next year. Bids for this work were previously received Sept. 1. At this time the American Product Co., which holds present contract, was low bidder at $623,000 for work covering entire city.

TOPEKA, KAN.—W. L. Osborne is stated to have made offer to city to erect new crematory to cost $7,000.

STREETS AND ROADS.

BOSTON, MASS.—Bids are asked by Bureau Yards and Docks, Washington, D. C., until Oct. 15 for constructing vitrified brick and wood pavements and concrete sidewalks at navy yard here. Mordecai T. Endicott, Ch. of Bureau. Specifications on file at office of Engineering News, 220 Broadway, New York.

BOSTON, MASS.—Bids are asked by Metropolitan Park Commission until Oct. 10 for grading, resurfacing and other work at Revere Beach reservation and Lynnway, from Revere St. to Laugus River, Revere. Estimate of work is approximately as follows: 10,000 cu. yds. earth grading; 75,000 cu. yds. filling material from beach; 30,000 cu. yds. surfacing gravel; 3,670 lin. ft. pipe drain of following sizes; 350 lin. 8-in. vitrified pipe; 3,200 lin. ft. 10-in. vitrified pipe; 130 lin. ft. 12-in. vitrified pipe; 40 stone drain outlets; 4,000 lin. ft. 2-ft. timber barriers; 4,000 lin. ft. 3-ft. timber barriers; 700 cu. yds. concrete masonry; 425 lin. ft. artificial stone base; 425 lin. ft. artificial stone coping; 190 cu. yds. brick masonry; 26,000 lin. ft. concrete edgestones; 4,000 sq. yds. concrete gutters; 1,250 sq. yds. granite block paving; 40,000 sq. yds. walk surfacing; 1,800 cu. yds. loam surfacing; 40,000 sq. yds. broken stone surfacing; 3,300 sq. yds. wood block paving. Plans and specifications may be seen at office of John R. Rablin, Engr., 14 Beacon St., City.

WAREHAM, MASS.—Road Commissioners, N. R. Besse, Secy., Onset, Mass., awarded to the H. Gore Co., 54 Kilby St., Boston, the contract for building about 4,520 ft. crushed stone road on Onset Ave. for $4,810.

HARTFORD, CONN.—Highway Commissioner McDonald awarded to the town of Madison the contract for a gravel road, at $5,670.

NEW YORK, N. Y.—Bids are asked by Louis F. Haffen, Pres. Boro. Bronx, until Oct. 12 for paving several streets with asphalt blocks on a concrete foundation.

WILLIAMSPORT, PA.—Bids are asked until Oct. 24 by State Highway Dept. at Harrisburg for constructing roads in Old Lycoming, Loyalsock, Lycoming and Hepburn Townships, in all about 31,950 ft.

Bids will be asked at the same time and place for constructing about 1,475 ft. road in Lancaster Township, and 4,423 ft. road in Upper Leacock Township, both in Lancaster County.

ALLEGHENY CITY, PA.—Bids are asked by Edward J. McIlvain, Dir. Dept. Pub. Wks., until Oct. 10 for grading, paving and curbing of Atlantic, Shady and McClure Aves., St. Clair and Luray Sts.; also for building a retaining wall on Troy Hill road.

WILKINSBURG, PA.—Bids are asked by Frease & Sperling, Boro. Engrs., until Oct. 8 for grading, curbing and paving of Maple and Lyne Sts.

CHESWICK, PA.—Borough of Cheswick will widen Freeport road from 33 ft. to 50 ft. and macadamize same.

MONTOOTH, PA.—Montooth Borough will receive bids on grading, paving and curbing of Lafferty Ave. Bids may be addressed to G. C. Wolfe, Boro. Clk., 29 Bigger Ave.

DUQUESNE, PA.—Borough Council will consider ordinance providing for increase in indebtedness of $90,000, of which $80,000 will be expended on street improvements.

PULASKI, VA.—City is to lay about 2,000 ft. granolithic sidewalks in the south side.

MONTGOMERY, ALA.—It is reported that the city will soon advertise for bids for paving the sidewalks on several streets. When the sidewalks are completed the streets will be graveled. Thomas H. Carr is Mayor.

NEW IBERIA, LA.—V. P. Guilfoux, Cy. Engr., writes us that bids will soon be received for construction of about 90,000 sq. ft. concrete sidewalks and 39,900 lin. ft. concrete curb.

ELYRIA, O.—The Barber Asphalt Co. is the only bidder on the Middle Ave. improvements, and their bid of $22,000 has been accepted.

ELLINGTON, O.—The Hanlon Construction Co., of Cleveland, has been awarded the contract for paving of the public square and Main St. at their bid of $11,000.

ASHTABULA, O.—Bids are asked by A. J. Richardson, Cy. Clk., until Oct. 8 for improving Fisk and King Sts. by grading, draining, curbing and paving with asphalt block on gravel foundation. The two jobs include 3,000 cu. yds. excavation, 10,000 cu. yds. asphalt block pavement, 4,338 lin, ft. cement curb and gutter, etc.

FINDLAY, O.—Council will issue bonds to pave Washington Ave. Cost, $14,000.

FINDLAY, O.—Contracts were awarded Sept. 23 to C. B. Hall & Son for improving Center St., at $4,672; Clinton Court, $4,491; Court Place and Alley, $4,768; West Lima St., $6,267. J. C. Edie is Clk. Bd. Pub. Service.

STEUBENVILLE, O.—Bids are asked by T. W. Vance, Cy. Clk., until Oct. 17 for grading, paving and curbing of South Seventh St.

XENIA, O.—The contract for paving Detroit St. with brick has been awarded to R. H. Fleming, of Ludlow, Ky., at his bid of $65,000.

CINCINNATI, O.—Bids are asked by Board Public Service until Oct. 26 for the improvement of Strader Ave. by grading, curbing and paving roadway with vitrified brick, and constructing necessary retaining walls. Geo. F. Holmes, Clk.

CINCINNATI, O.—Bids are asked by Board Public Service until noon of Oct. 13 for macadamizing on Bellevue and University Aves.

CINCINNATI, O.—Bids are asked by Board Public Service until Oct. 19 for the improvement of right of way for approaches to Grandin Road viaduct by grading, setting curbs, macadamizing roadway and constructing drains and retaining walls. Geo. F. Holmes, Clk.

INDIANAPOLIS, IND.—Indiana officials have plans under consideration for a park of 2,000 acres in forestry reservation, Clark County. Wm. H. Whittaker, Supt. Indiana Reformatory, outlined the plans.

ROCKVILLE, IND.—Henry Grubb, Audr. Parke County, is preparing to receive bids for construction of McMasters and Rosa Creek gravel road in Liberty Township; also for construction of Rockport and De Baun gravel road, and Huff and Jessup gravel road, aggregating about six miles.

MUNCIE, IND.—Bids are asked until Oct. 10 for constructing sidewalks on a portion of Sampson Ave., and until Oct. 17 for constructing sidewalks on Center St., and for grading and macadamizing a portion of Pierce St. R. G. Hickok, Cy. Clk.

Bids are asked until Oct. 24 for the improvement of sidewalks on High and Mulberry Sts., and for grading and macadamizing on portion of Willard St.

INDIANAPOLIS, IND.—Bids are asked until Oct. 10 by Board Public Works for grading, graveling and paving sidewalks with cement on portions of Hunter and Morris Sts., and for grading, graveling and paving with asphalt on Prospect St.; also for grading and paving sidewalks with cement on a portion of South St. M. A. Downing, Chn.

EVANSVILLE, IND.—Board Public Service will receive bids, it is reported, for constructing artificial stone walks on several streets. Aug. Pfafflin is Cy. Engr.

PEKIN, ILL.—Bids are asked by Board Local Improvements until Oct. 7 for grading and paving on North Fourth St.

ALTON, ILL.—Bids are asked by Sidewalk Committee of City Council until Oct. 8, noon, for constructing sidewalks on various streets.

DES MOINES, IA.—The paving and parking of Kingman Boulevard a distance of nearly 1½ miles, at an estimated cost of $150,000, will be undertaken by the city next year.

ST. PAUL, MINN.—Bids are asked until Oct. 11 by Board State Capitol Commissioners for furnishing material required for asphalt roadways and sidewalks for new State Capitol building here. Cass Gilbert, Arch., 524 Endicott Bldg. Channing Seabury, Vice-Pres.

DULUTH, MINN.—Petitions are in circulation by residents of Jefferson St. asking the Council to improve that thoroughfare.

ST. PAUL, MINN.—The James Forrestal Co. was the lowest bidder at $3,865, for brick paving on Kenwood Terrace. Engineers estimate, $3,485. The Board Public Works will investigate the matter for the purpose of determining whether the bids are too high.

FORT LEAVENWORTH, KAN.—Bids are asked by Maj. D. E. McCarthy, Q. M., until 1 a. m., Oct. 10 for granolithic walks, curbing, etc.

OMAHA, NEB.—Bids are asked by Board Public Works until 2 p. m., Oct. 10 for paving and curbing a portion of 16th St. Wm. Coburn, Secy.

HELENA, MONT.—Bids are asked by E. C. Day, Cy. Clk., until Oct. 24 for paving Main St. with either granite, vitrified brick, asphalt, bitulithic or kreodone blocks. The work will consist approximately of the following: 18,500 sq. yds. paving, 18,500 sq. yds. concrete base, 18,500 sq. yds. removing of old block pavement, 514 cu. yds. excavation, 2,392 lin. ft. curb to be reset in concrete, 1,293 lin. ft. curb to be removed and relaid.

ST. JOSEPH, MO.—Ordinances providing for the improvement of a number of streets by grading, curbing and paving were passed by Board Public Works. Frank W. Beach, Cy. Clk.

AUSTIN, TEX.—It is reported that bids will soon be advertised for the paving of Congress Ave. John B. Hawley, of Fort Worth, is Engr.

HOUSTON, TEX.—$100,000 bond issue has been approved by City Council. The Second Ward will use $11,000 for the resurfacing of Franklin Ave.

GUTHRIE, OKLA.—Bids are asked by E. Seixas, Cy. Clk., until Oct. 13 for curbing, draining, guttering and paving with vitrified brick. Plans and specifications on file in office City Engneer.

LEADVILLE, COLO.—Bids are asked by County Clerk until Oct. 8 for construction of roads. L. G. Carpenter, Denver, State Engr.

SEATTLE, WASH.—Bids are asked by C. B. Bagley, Secy. Bd. Pub. Wks., until Oct. 8 for grading and laying concrete walks on 14th Ave., Sixth Ave. West, and other highways. Est. cost, $13,650. R. H. Thomson, Cy. Engr.

Ordinance has been passed ordering the regrading of Third Ave. Est. cost, $45,000.

The following contracts have been awarded by Board Public Works: Ward St. and Warren Ave., grading, J. A. Bailey, $12,755; Belmont Place, concrete walks, Hans Pedersen, $2,444; Brooklyn Ave., grading, Wm. Stanley & Co., $3,739.

BLAINE, WASH.—Bids are asked by R. J. Glen, Cy. Clk., until Oct. 1 for grading Cherry St.; also for constructing a 6 ft. sidewalk on same street.

PORT TOWNSEND, WASH.—Bids are asked by Geo. H. Penrose, Q. M., U. S. A., until Oct. 17 for grading part of parade ground at Fort Casey, Wash.

SAN FRANCISCO, CAL.—Bids are asked until Oct. 28 for constructing macadam roads and concrete sidewalks and gutters at Fort Miley. Address Wm. S. Patten, Q. M.

SAN JOSE, CAL.—Bids are asked by Roy E. Walter, Cy. Clk., until Oct. 10 for curbing and laying sidewalks on Miller St.

REDWOOD CITY, CAL.—City votes to issue $100,000 bonds, $65,000 of which are to improve streets and the remainder for water mains.

MANUFACTURING PLANTS.

MANCHESTER, CONN.—The Bon Ami Co. contemplates building a new factory on Oakland St.

NEW YORK, N. Y.—Hecker-Jones-Jewell Co., Produce Exchange, City, has awarded the contract for mill and elevator buildings to Barnett & Record Co., Minneapolis, Minn.

PITTSBURG, PA.—The Standard Sanitary Mfg. Co., Arrott Bldg., City, will erect warehouse and office building as an addition to present plant on Preble Ave., Allegheny City. Cost, $45,000.

PHILADELPHIA, PA.—Schutte & Koerting Co. has a contract to make extensive alterations to machine shop at 12th and Thompson Sts.

HARRISBURG, PA.—Fire destroyed the four-story hosiery mill of W. H. Sheaffer, at Wisconsin, a mining town near here, together with 12 other buildings. Loss, $100,000.

BALTIMORE, MD.—The Agriculturist Commercial Storage Co. is contemplating the erection of a six-story cold-storage warehouse. Howard Tebbs, 19 Builders' Exchange Bldg., 2 East Lexington St., is representing those interested in the enterprise.

BERKELEY SPRINGS, W. VA.—The new mill of the Keystone Sand Co. was destroyed by fire. Machinery was badly damaged. Loss, $40,000.

Information concerning contracts to be let or supplies to be furnished, and corrections of errors and omissions in published items, are invited. Full details regarding the equipment, tools, etc., required for the proposed improvements are specially desired.

GUSEMAN, W. VA.—The Englehart Woolen Mill Co. has been chartered to manufacture woolen goods. Authorized capital, $30,000. Incorporators: John Englehart, Jese M. Englehart, Sanford H. Hartman, City; James B. Kelly and Bruce A. Ringer, Lenox, W. Va.

FAYETTEVILLE, N. C.—A new 25,000-spindle cotton mill, to be known as the Coleman Cotton Mill, will be erected here. W. D. McNeill will be general manager and can give information.

CHESTER, S. C.—The Springstein Mills will enlarge their plant at a cost of about $100,000. The company will erect an additional building two stories high, 50 × 116 ft., where will be installed an equipment of 6,018 spindles. There will also be some new dyeing and finishing apparatus added. The Springstein Mills are at present capitalized at $100,000 and operate some 8,046 spindles and 992 looms on the production of ginghams.

GREENVILLE, S. C.—The Woodside Cotton Mills have increased their capital from $200,000 to $400,000 and will build an additional mill with a capacity of 30,720 spindles and about 900 looms. This entire equipment may not be installed at once.

ROCKY MOUNT, N. C.—The Rocky Mount Hosiery Co., recently chartered, has an authorized capital of $100,000, of which $25,000 has been subscribed. The company has purchased a site and will build a mill. G. T. Andrews is Supt.

WILSON, N. C.—The Ware-Kramer Tobacco Co. writes us that the new factory buildings will not be erected until next year. Q. D. Ware is Mgr.

McCALL, S. C.—The Coker-Weaver Co. has been organized to erect a cotton gin here.

SAVANNAH, GA.—Murray M. Stewart will erect a new cotton compress in this city.

ATLANTA, GA.—The Southern Cotton Oil Co. will increase the capacity of its plant, adding a lard and soap department. L. A. Ransom is Mgr.

CORDELE, GA.—C. C. Greer will establish a cotton gin with eight gins, an oil mill and fertilizer plant, at a cost of between $50,000 and $75,000.

COVINGTON, GA.—E. C. Rainey, of Eatonton, has purchased the Covington Machine Shops and will enlarge the plant. He will remove to this place at once.

WASHINGTON, GA.—J. E. Reynolds expects to erect a corn mill and ice factory next January. It is reported that new machinery for both plants will be wanted at that time.

CARTERSVILLE, GA.—It is stated by the "Pink Sheet Daily Bulletin" that the Fairfield Mills Co. has been incorporated with a capital stock of $25,000 for the manufacturing of cotton goods. The incorporators are: Geo. H Crouch, J. N. Vivian, N. M. Adams and T. W. Baxter, all of Cartersville.

CORDELE, GA.—The Aycock Bros. Lumber Co. will erect a mill with a daily capacity of 100,000 ft. W. E. Aycock, Moultrie, Ga., is Engr.

JACKSONVILLE, FLA.—The Jacksonville Cooperage Co., capital stock $100,000, will erect a cooperage plant at a cost of $75,000. J. C. Little is Pres.

BIRMINGHAM, ALA.—J. B. Barthelmess, Savannah, Ga., will probably locate a manufacturing plant in this city.

FLORALA, ALA.—J. W. Beverly will erect a hardwood mill at this place.

MOBILE, ALA.—A $100,000 cold storage plant will be erected here. Emanuel Cainzas is the promoter of the enterprise.

ENTERPRISE, ALA.—Enterprise Gin & Warehouse Co. will rebuild cotton gin recently destroyed by fire; capacity, 100 bales a day. J. A. Adams is Engr.

GADSDEN, ALA.—R. L. Adams is making preparations for the establishment of a $10,000 knitting mill in this city.

BASSFIELD, MISS.—A. E. Bass and C. Courtney will erect a cotton mill here.

PURVIS, MISS.—The Manar Mfg. & Realty Co. has been chartered with $10,000 capital, to establish a box factory.

SHREVEPORT, LA.—The Virginia-Carolina Chemical Co., with branches at Memphis, Tenn., Richmond, Va., and Winston N., C., will erect at Shreveport a manufacturing plant, representing an investment of upwards of $300,000. The company's main offices are at Richmond, Va.

MEMPHIS, TENN.—A $50,000 handle factory will be located here. I. F. Peters, of the Industrial League, can give information.

NASHVILLE, TENN.—The American Skein & Foundry Co. will locate a $1,000,000 plant in this city. The industry was secured by Retail Merchants' Assoc. Address the secretary for information.

NASHVILLE, TENN.—The capacity of the Nashville Show Case Co. will be increased and new machinery will be added at a cost of about $10,000. F. P. Provost is Mgr.

CLINTON, TENN.—A local company is being organized to establish a foundry. C. J. Sawyer is Pres.

BOWLING GREEN, KY.—It is reported that G. W. Snyder contemplates organizing a $100,000 company to establish a brewery.

HAMILTON, KY.—A $10,000 flouring mill, with a daily capacity of 50 bbls. will be erected here by A. G. and A. R. Crawford.

LEXINGTON, KY.—Plans are being prepared by the Lexington Brewing Co. for a branch plant at Chattanooga, Tenn. Cost, $200,000.

CLOVERPORT, KY.—Marian Weatherholt, A. T. Oelze, Dr. A. A. Simons and H. A. Oelze are organizing the Cloverport Pearl Button Factory, Inc., with $6,000 capital. A factory building will be erected, and the plant will have a daily capacity of 200 gross.

LOUISVILLE, KY.—R. A. McDowell, Pres. Commercial Club, is in correspondence with a St. Louis (Mo.) candy manufacturer relative to the establishment of branch plant at Louisville.

TIFFIN, O.—The main building of the Tiffin brewery was destroyed by fire. Loss, $50,000.

CINCINNATI, O.—Work will be started at once by the Fay & Egan Co. to repair plant recently destroyed by fire.

EVANSVILLE, IND.—The Indiana Canning Co. is planning to build a large addition to its plant.

INDIANAPOLIS, IND.—The J. D. & W. shops of the Cincinnati, Hamilton & Dayton system here, it is understood, will be enlarged. E. Wysong, Supt. Bridges and Bldgs., Connersville, Ind., may be able to inform.

RICHMOND, IND.—The Collins-Crain Mfg. Co., Flemingsburg, Ky., will, it is announced, remove to this city and build a plant. G. M. Bennett is Gen. Mgr.

CHICAGO, ILL.—Plans are being prepared by E. C. and R. M. Shankland for plant to be erected at Chicago Heights for Columbia Tool Steel Co. It will embrace several large structures, the main one to be 75 × 650 ft. There will also be a two-story office building. All will be built of brick, steel and stone.

CHICAGO, ILL.—C. A. Eckstorm, Arch., Tacoma Bldg., has made plans for a factory building to be erected at 181 East Erie St., for Scudder Syrup Co. Brick and terra cotta, 4 stories, 39 × 100 ft., composition roof, steam heat, etc. Cost, $15,000.

Walker & Ehrman Mfg. Co., 127 West Washington St., is having plans prepared for a new factory.

CHICAGO, ILL.—A $100,000 factory is to be built at Division and North Branch Sts. for Mrs. Rose Eisendrath. It will be five stories high, 125 × 110 ft.

Plans for a packing plant at the stock yards, to be built by American Agricultural Packing Co., are being prepared. Two of the six buildings to be erected will be 112 × 112 ft., five stories high. Some of the buildings will be fireproof and others of slow-burning brick construction.

CHICAGO, ILL.—Mimmons & Fellows, Archs., 204 Dearborn St., are taking new figures on the plant to be erected at Hammond, Ind., for Reid, Murdock & Co.

GOOSE ISLAND, ILL.—S. M. Seator, Arch., 97 Clark St., Chicago, has completed plans for a factory building to be erected here for M. H. Hickey, care Architect. Brick and stone, 25 × 77 ft., 1 story. Cost, $10,000.

MILWAUKEE, WIS.—Five large storage and manufacturing buildings will be erected in the vicinity of Oregon, Florida and Barclay Sts., at a cost of $250,000. The William R. Franzen Co. and others will occupy the buildings, which are to be constructed of steel, brick and concrete.

POWERS LAKE, WIS.—The Jefferson Ice Co. will erect a storage plant here after plans by Wm. Oalhaber, 663 North Robey St., Chicago, Ill. The building, which will be constructed of planking, will be 125 × 516 ft., and will cost $50,000. Ice conveying machinery and a 125-HP. engine are wanted.

ST. PAUL, MINN.—A. Booth & Co. will erect a boiler and engine house of St. Peter St., in connection with the proposed cold storage warehouse.

SPARTA, MO.—The Sparta Canning Co. has increased its capital and will enlarge its plant.

CARTHAGE, MO.—The Carthage Cotton Mills Co. will erect a four-story factory building. Contract has been awarded to T. C. Thompson & Bros., of Birmingham, Ala.

HAILEYVILLE, I. T.—The Haileyville Ginning & Milling Co., capital $10,000, will erect a cotton gin here.

SNYDER, OKLA.—Neil P. Anderson, Fort Worth, Tex., will erect a cotton compress here.

SAN ANGELO, TEX.—C. B. Metcalf contemplates erecting two new cotton gins in addition to one just completed.

PARIS, TEX.—A four-story peanut factory will be erected here by a Petersburg, Va., concern. Secretary Board of Trade can inform.

FORT WORTH, TEX.—The Fort Worth Iron & Steel Mfg. Co. has been organized with a capital stock of $200,000 for the purpose of establishing an iron and steel plant here. Ephriam Pickins, Lewisville, O., is one of the incorporators. B. B. Paddock, Secy. Brd. of Trade, can probably inform.

PORTLAND, ORE.—The Multnomah trunk and box factory has taken out a permit to erect a new plant to cost $70,000. There will also be trunk factory, dry kiln, office and barn.

LAMAR, COLO.—Contracts will soon be let by the American Sugar Beet Refining Co. for constructing of a factory here.

COLORADO SPRINGS, COLO.—The American Crude Rubber Co., 31 Bank Bldg., City, is having plans prepared for a new factory.

SAN JOSE, CAL.—W. H. Drake, of the Drake Acetylene Burner & Supply Co., Cleveland, O., is contemplating the removal of his factory to this city. He has written to C. E. Wright at 28 Magnolia Ave., this city, asking for particulars.

SAN FRANCISCO, CAL.—It is reported that the Union Iron Works will enlarge their plant.

MASSEY, ONT.—The Carney Lumber Co. will, between now and next spring, invest $125,000 in a lumber mill. The mill will be located at Owen Sound, 20 miles from this city.

LEWISTON, IDAHO.—J. M. Wolf, Seattle, Wash., is interested in a company that proposed to erect a cannery here. Cost, $30,000.

MISCELLANEOUS CONTRACTS.

TELEPHONE SYSTEM.—Quincy, Ill.—Council has granted franchise to Quincy Automatic Telephone Co.

FIRE APPARATUS.—Deloraine, Man.—By-law has been passed appropriating $6,000 for purchase of fire apparatus.

TELEPHONE SYSTEM.—Fernie, B. C.—D. V. and A. J. Mott have been granted franchise to install telephone system here.

OIL CONDUITS.—San Jose, Cal.—Coaling Oil Co. has been granted franchise to lay oil conduits on certain county roads.

PIER EXTENSION, ETC.—Santa Cruz, Cal.—Tent City Corporation will spend $10,000 in extending pier and in construction of pavilion upon it.

LAUNCH.—New York, N. Y.—Bids are asked by Major G. S. Bingham, Q. M. U. S. A., Army Bldg., until Oct. 26 for construction of 60-foot launch.

MAGAZINE.—Winnipeg, Man.—Bids are asked until Oct. 14 for construction of magazine at this place. Fred. Gelinas, Secy. Dept. Pub. Wks., Ottawa, Ont.

FIRE ENGINES.—Los Angeles, Cal.—Bids are asked by H. J. Lelande, Cy. Clk., until 11 A. M., Oct. 10, for furnishing city with two second-size steam fire engines.

TELEPHONE COMPANY.—Norwalk, O.—Oil Belt Telephone Co. has been incorporated with $25,000 capital. Harry E. Graham and Joseph R. McKnight are interested.

BREAKWATER.—Ottawa, Ont.—Bids are asked by Fred. Gelinas, Secy. Dept. Pub. Wks., until Oct. 13 for construction of breakwater at Robinson's Island, Rustico Harbor, P. E. I.

FIRE BOAT.—Washington, D. C.—Tams, Le Moine & Crane, Naval Archs., 52 Pine St., New York, are preparing plans and specifications for new fire boat for this city; $65,000 is available.

DAM.—Austin, Tex.—It is reported that M. J. Yeager, Lewiston, Pa., representing Eastern capitalists, has been investigating project for building dam across Colorado River at this place.

HOPPER COAL CARS.—Philadelphia, Pa.—Pennsylvania R. R. Co. has let contracts for 600 steel hopper coal cars to Pressed Steel Car Co. and Cambria Steel Co., each concern to build 300 cars.

HARBOR WORK.—Chicago, Ill.—Bids are asked until Nov. 4 for rebuilding superstructure and laying new decking in Calumet Harbor. Col. O. H. Ernst, Engrs. (Advertised, Engineering News.)

SUMMER RESORT.—Muncie, Ind.—Jerome Herff, Peru, Ind., is reported interested in project involving expenditure of about $150,000 for creating lake and developing summer resort at West Muncie.

TOWER CLOCK.—Huntington, Ind.—Bids are asked by County Commissioners until Oct. 21 for furnishing 8-day, weight and pendulum hour striking clock for county court house. Geo. S. Morris, County Audr.

LEVEE WORK.—Sacramento, Cal.—Bids received by City Trustees recently for reconstructing Y St. levee are stated to have exceeded estimated cost, and may be rejected. Lowest bid was about $8,500.

CANAL.—New Orleans, La.—Erwin A. Sperry and Geo. S. Cowdery, of Denver, Colo., are reported as projecting scheme for building 45 miles long, 400 ft. wide and 35 ft. deep canal to connect this city with gulf of Mexico.

RIPRAP STONE.—Tompkinsville, N. Y.—Bids are asked until Oct. 21 for furnishing and placing 2,000 tons of riprap stone at Cedar Island Light-Station, N. Y. Lt.-Col. W. T. Rossell, U. S. A., Engr. (Advertised, Engineering News.)

STRUCTURAL STEEL.—Boston, Mass.—Bids are asked by Boston Rapid Transit Commission, 15 Beacon st., until Oct. 11, for furnishing about 435 tons structural steel for Sec. 2 of Washington St. tunnel. B. Leighton Beal, Secy.

RETAINING WALL.—Dedham, Mass.—Bids are asked by County Commissioners until 10 A. M., Oct. 11, for building retaining wall on River Pl. Peabody & Stearns, Archs., 919 State St. Exchange, Boston, Mass.; Thomas Blanchard, County Comr.

DRAINAGE SYSTEM.—Bloomington, Ill.—Preliminaries are stated to have been completed for dredging, deepening and widening Green River for about 23 miles, reclaiming 33,000 acres of land in Bureau and Henry Counties. Estimated cost is $500,000.

TELEPHONE EXTENSION.—El Paso, Tex.—Southwestern Telephone Co. will extend its line at once east of El Paso to Clint, San Elizario and Ysleta, in the direction of Uvalde, to which point wires are now being extended from San Antonio.

DREDGING.—Washington, D. C.—Specifications are on file at office of Engineering News, 220 Broadway, New York, for about 65,000 cu. yds. dredging at Navy Yard, Norfolk, Va. Bids are asked until Oct. 22 as stated in Engineering News of Sept. 29.

DITCH, ETC.—Bloomfield, Mo.—A. C. Spiker, Engr., Drainage District No. 5, will let at public outcry, Nov. 14, at Court House, Bloomfield, construction of ditches and bridges in that drainage district. Work consists of constructing main ditch aggregating about 503,124 cu. yds.

DREDGING.—Washington, D. C.—Bills are asked by Bureau Yards and Docks, until Oct. 15, for dredging about 35,000 cu yds., at League Island, Pa., Navy Yard. M. T. Endicott, Ch. Bureau. Specifications for above work are on file at office of Engineering News, 220 Broadway, New York.

TUNNEL.—Philadelphia, Pa.—Inter-City Link R. R., a recently incorporated company, proposes, it is stated, to construct a tunnel under the Delaware River, between this city and Camden, and to operate a steam railroad through it. Clarence Wolf, of Wolf Brothers & Co., is Pres.

DAM.—Cincinnati, O.—Following bids were received by Col. G. J. Lydecker, U. S. Engrs., Sept. 27, for constructing Dam No. 37, Ohio River. Sheridan Kirk Contract Co., Madison, Ind., $803,461; Baker & Egan, Pittsburg, Pa., $835,837; Ferro-Concrete Construction Co., Cincinnati, O., $826,922.

LUMBER AND WIRE.—New York, N. Y.—Bids are asked by Commissioner of Bridges, 13 Park Row, until Oct. 20 for furnishing and delivering yellow pine, white pine and spruce lumber; also for furnishing and delivering 22,000 lin. ft. weatherproof insulated copper feed wire. George E. Best, Comr.

DREDGING.—Galveston, Tex.—Following bids were received by U. S. Engineer for improvement of Brazos Harbor, requiring about 200,000 cu. yds. dredging. Bowers Southern Dredging Co., Galveston, Tex., $39,000, Rittenhouse Moore, Tallulah Falls, Ga., $60,000; George W. Catt, New York, $49,000.

TELEPHONE WORK.—Santa Fe, N. Mex.—L[illegible] reports state that the Bell Telephone Co. will [illegible] ask franchise in Santa Fe, as its subsidiary [illegible] tion the Colorado Telephone Co., which recently [illegible] its Denver line to Las Vegas, plans an extension [illegible] Fe, Albuquerque, Belen and Socorro, at an exp[illegible] of $100,000.

LAND DEVELOPMENT.—Stamford, Conn.—[illegible] Madie Land Co. has applied for incorporation [illegible] $15,000,000, and proposes to buy and sell timber [illegible] deal in lumber, make paper, own and operate [illegible] and do a general business in merchandise. Cla[illegible] Chase, John H. Martin and Egbert J. Gates, [illegible] Stamford, are interested.

LEVEE.—Marksville, La.—Bids for constructing [illegible] Red River are asked by Commissioners Red Riv[illegible] Bayou des Glaises Levee District until Oct. 10, in[illegible] Oct. 19, as was stated in our issue of Sept. 29. [illegible] to be known as David's Ferry South Levee; it w[illegible] about 23 miles long and will require about 2,00[illegible] yds. earth work. Sam'l W. Gardiner, Pres.; E. R[illegible]ler Secy.

STREET SIGNS.—New York, N. Y.—Bids will [illegible] ceived by Commissioner Water Supply, Gas and El[illegible] city, 13 Park Row, until 2 P. M., Oct. 12, for furni[illegible] erecting maintaining and illuminating street sign[illegible] and attaching the same to electric light poles in [illegible] Borough of Manhattan, in the City of New York, fo[illegible] period from Oct. 12, 1904, to March 16, 1905. John T. Oakley, Comr.

CANAL.—Albany, N. Y.—State Canal Board approved plans and specifications Sept. 29 for first six cont[illegible] for construction of the barge canal. Bids are to be a[illegible] at once by the Superintendent of Public Works for [illegible] work, which will cost about $8,000,000. The specification[illegible] approved provide for the following work: Excavating [illegible] Hudson River channel between Northumberland and Fort Edward; canal and lock construction at Waterford and at Fort Miller, on the Champlain Canal; excavating for about five miles on the east end of Oneida Lake, about [illegible] miles across the Montezuma Marshes near Savannah, and about four miles west of Rochester.

MINING

REDUCTION PLANT.—Kelvin, Arix.—Reduction plant may be established at Ray Mine.

REDUCTION WORKS.—Prescott, Ariz.—Local reports quote S. W. Gleason, of the Bunker Hill Mines, as stating that his company contemplates erection of reduction works.

TALC MINING.—Visalia, Cal.—S. Thomas and J. D. Martin have leased 5,000 acres of land in the Yokohl Valley, about eight miles from Exeter. The property will be mined for talc, soapstone, etc., and a plant established to cost about $20,000.

CONTRACT PRICES.

[Where (*) precedes items under Contract Prices the work was advertised in Engineering News.]

STEEL.—Salem, Mass.—Essex County Commissioners have let contract to Cambria Steel Co., Boston, Mass., for furnishing 49,140 lbs. of steel in form of girders and ties at 1.81½ cts. and 3.11½ cts., respectively.

DREDGING.—Mobile, Ala.—Following bids per cubic foot scow measurement were received by Major W. E. Craighill, U. S. Engrs., Sept. 24 for dredging in Mobile Harbor: Rittenhouse Moore, Tallulah Falls, Ga., 8 cts.; Geo. G. Barker, Wilmington, Del., 8.5 cts.; Geo. W. Catt, Park Row Bldg., New York, 9 cts.

STEEL GIRDERS AND TIES.—Salem, Mass.—Essex County Commissioners let contract Sept. 18 to Cambria Steel Co., Boston, Mass., for furnishing 49,140 lbs. structural material at 1.81½ cts. per lb. for girders and 3.11½ cts. for ties.

PIPE SEWERS.—Centralia, Ill.—Following bids were received by President Board Local Improvements Sept. 24 for constructing pipe sewers; Iowa Engineering Co., Clinton, Ia., Des. Engrs., their estimate of cost being $1[illegible]: (1) Meyers Construction Co., St. Louis, Mo.; (2) E. T. Webster & Son, Green Bay, Wis.; (3) John H. McCarthy, Chicago, Ill.; (4) McNickels & Cogan, Chicago, Ill.; (5) James Healey, Morgan Park, Ill.; (6) W. H. Harris, Terre Haute, Ind.; (7) Engel & Carpenter, Chicago, Ill.; (8) D. W. Norton & Co., Vincennes, Ind. (awarded contract); (9) John J. O'Heron & Co., Chicago, Ill.:

Bids received at Centralia, Ill., September 24, 1904, for Constructing Pipe Sewers.

Items.	Quantities.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
20-in. pipe sewers:										
Cut 0 to 4 ft.	1,349 ft.	$0.86	$1.13	$1.35	$1.35	$1.00	$1.00	$1.20	$1.10	$1.25
Cut 4 to 6 ft.	2,495 ft.	1.90	1.24	1.40	1.40	1.50	1.30	1.25	1.20	1.30
Cut 6 to 8 ft.	2,508 ft.	1.25	1.35	1.45	1.45	2.00	1.50	1.35	1.40	1.50
Cut 8 to 10 ft.	1,443 ft.	1.75	1.50	1.50	1.50	2.00	1.70	1.45	1.30	1.60
Cut 10 to 12 ft.	407 ft.	2.30	1.80	1.60	1.60	2.00	1.80	1.50	1.70	2.00
Cut 12 to 14 ft.	190 ft.	2.85	2.10	1.65	1.65	2.00	2.00	2.00	2.00	2.00
Cast iron water pipe		4.50	3.35	6.50	6.00	5.00	4.00	6.50	4.00	4.00
18-in. sewer pipe		1.25	1.07	1.70	1.50	1.50	1.00	1.20	1.00	1.00
Manholes	10	60.00	55.00	40.00	35.00	40.00	30.00	30.00	30.00	40.00
Septic tank		4.800.00	4,228.00	4.800.00	4,500.00	4.500.00	4,000.00	4,300.00	3,500.00	3,860.00
Totals		$16 984	$16,710	$18 300	$17,823	$19,856	$16,853	$16,571	$15,803	$17,000

CONDUITS.—Washington, D. C.—Bids are asked by Bureau Yards and Docks, until Oct. 22, for constructing certain waterproof concrete and steel conduits at Navy Yard, Boston, Mass. M. T. Endicott, Ch. Bureau. Specifications for above work are on file at office of Engineering News, 220 Broadway, New York.

LOCK GATES.—Louisville, Ky.—Three lowest bids received at U. S. Engineer's Office Sept. 30 for steel gates for Lock No. 6, Green River, Ky., were as follows: Lawrence D. Weaning, Cleveland, O., $3,975; Meehan Boiler & Construction Co., Lowellville, O., $4,075; Chas. Hegewald Co., New Albany, Ind., $4,499.

GRADING.—Boston, Mass.—Following bids were received Sept. 19 by Metropolitan Park Commission, J. R. Rablin, Acting Engr., for grading Furnace Brook Parkway from Adams St to Blue Hills Reservation, Quincy, Mass.; (1) H. P. Nawn, Roxbury, Mass.; (2) John F. Lynch, Dorchester, Mass.; (3) T. Stuart & Son Co., Newton, Mass.; (4) T. H. Gill & Co., Boston, Mass.; (5) Coleman Bros., Everett, Mass.; (6) James Doherty, Roxbury, Mass.; (7) Hub Construction Co., Boston, Mass.; (8) The H. Gore Co., Boston, Mass.; (9) Rowe & Perini, South Framingham, Mass. (awarded contract):

Bids received at Boston, Mass., Sept. 19, 1904, for Grading Furnace Brook Parkway, from Adams St. to Blue Hills Reservation, Quincy, Mass.

Items.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Earth grading, 10,000 cu. yds.	.37	.49	.40	.39	.40	.35	.44	.39	.27
Filling, 18,000 cu. yds.	.70	.59	.58	.58	.55	.58	.50	.47	.47
Pipe culvert, 12-in., 500 lin. ft.	.36	.49	.60	.63	.60	.63	.53	.53	.53
Pipe culvert, 15-in., 1,100 lin. ft.	.50	.61	.75	.74	.85	.79	.67	.68	.70
Pipe culvert, 18-in., 200 lin. ft.	.60	.75	.90	.86	1.25	.90	.80	.81	.84
Pipe culvert, 20-in., 110 lin. ft.	.75	.97	1.20	1.04	1.35	1.11	1.01	1.07	1.10
Pipe culvert, 24-in., 75 lin. ft.	1 25	1.30	1.75	2.12	2.00	1.89	1.88	1.92	1.54
1st class stone masonry, 40 cu. yds.	14.00	8.00	28.00	19.50	20.00	15.00	18.00	35.00	30.00
3d class stone masonry, 50 cu. yds.	7.00	4.00	5.00	4.50	6.00	3.50	4.50	5.00	5.00
Concrete masonry, 150 cu. yds.	8.00	8.00	6.00	5.90	7.00	4.50	5.00	6.50	6.10
Steel arch, 12-ft. concrete	1,200.00	1,700.00	800.00	990.00	700.00	625.00	991.00	978.00	640.00
Totals	$20,636	$20,233	$19,078	$18,794	$18,538	$17,648	$17,500	$16,500	$15,604

FILTRATION PLANT, WATER SYSTEM EXTENSION.—Wilmington, Del.—Bids were received by Water Commissioners Sept. 26 for building filtration plant and extensions to water system. The work was divided into seven contracts, the total bids for Contract No. 6, which calls for construction of Rodney Reservoir, being as follows: T. A. Gillespie Co., $101,500; R. A. Malone, Lancaster, Pa., $80,750; Ryan & Kelley, $95,000; D. J. Malone, $167,837; C. F. Taylor & Co., $137,231; Harrison Construction Co., $113 000; U. S. Sand Filtration Corporation of America, $125,350; Smith Construction Co., $92,868; Jas. Malloy & Co., $135,000; Manufacturers' Contracting Co., $86,833. For Contract No. 7, calling for construction of stack, bids were received as follows: W. W. Kellogg & Co., $2,850; Ryan & Kelley, $2,950; D. J. McNichol, $3,869; Manufacturing Contracting Co., $3,685; Alphons Custodis Construction Co., $3,685; G. S. Charles, $4,200. Bids received on the other work were as follows:

BIDS RECEIVED AT WILMINGTON, DEL., SEPT. 26, 1904, FOR CONSTRUCTION OF SEDIMENTATION BASIN, FILTER BEDS AND PUMPING STATION.—CONTRACT No. 1.

	Total Bid.	Reservoirs.	Filter Beds.	Pumping Station.	Gate House.	Regulating House and Lab.	Regulating House No. 2.	Sand Washers.	Alternative Bids. Filter Beds. Pipe Collectors.	Alternative Bids. Filter Beds. Triangular Tile
Manf. Contracting Co., Wilmington, Del	$414,422	$213 628	$144.443	$25,941	$7,011	$9,468	$6,156	$5,785	$132,507	$157,047
Jas. Malloy Co, Wilmington, Del	532 000	122 200	322.400	42,000	11.700	15,600	13 000	5 100	270,000	322,000
Smith Cons. Co., Philadelphia, Pa	454 314	243,800	156 767	22,421	8 097	10,310	9 276	3.643	177 811	208 281
David Peoples, Philadelphia, Pa	454,814	203 829	202,885	18,000	7,800	7,900	5,400	9,000	202,890	202,890
Porter & Carroll, Pittsburg, Pa	600,709	250,594	260,166	42 313	14 033	16,138	11 268	6,197	....	....
T. A. Gillespie & Co., Pittsburg, Pa	524 324	205.678	256.106	29,793	9,129	12,702	7,916	3,000	220,776	222,315
R. A. Malone, Lancaster, Pa	481,941	254,742	166,552	25,322	10 755	10,719	8,787	5,000	115,330	185,906
Ryan & Kelley, Baltimore, Md	455,461	205,000	194,000	29,700	7 211	9,900	6,750	2,900	190,000	265,000
D. J. McNichol, Philadelphia, Pa	689,693	366 476	245,935	39 233	10,249	13,565	9,970	4,265	220,950	260,000
Eglee Bunting Co., New York	446,205	185,940	210,965	20,000	3 000	4,300	2,000	20,000	152,965	235,000
U. S. Sand Filt. Corp., Washington, D. C	731,122	285,186	364,485	45,400	9,690	13,570	9,690	3,100	437,771	375,752

CONSTRUCTING CONDUIT AND PIPE LINE FROM ROCKLAND DAM TO COOL SPRING RESERVOIR.—CONTRACT No. 2.

	Total Bid.	72-in. Intake. 2,200 ft.	66-in. Conduit. 9,300 ft.	66-in. Tunnel. 4,950 ft.	48-in. Cast Iron Pipe. 4,370 ft.	Creek Crossing.	Rocky Run Culvert.	Rattlesnake Run. Culvert.	Intake Crib.	Cool Spring Gate House.	Alternative 48-in. Steel Pipe. 4,370 ft.	Bid 66-in. Invert lined Tunnel. 4 950 ft.
Manuf. Con. Co	$326,928	$31,680	$116,964	$151,519	$13,328	$5,558	$2,438	$708	$2 304	$1.398	$14,902	$129,096
Jas. Malloy Co	372,700	33 800	114,000	150,000	47,000	15,000	4,500	1,900	3,500	3,000	44,000	130 000
Smith Con. Co	321,451	21,560	89,745	178,200	17,480	7 272	855	392	3.161	2,786	15.292	116,325
David Peoples	271,139	16,918	91 977	111 375	39,985	14,862	1.178	342	2,500	2 000	39,985	103,950
Gillespie & Co	376,629	33 220	140 430	148,500	32,338	12,700	4,000	1,000	2,387	2,054	28,929	131,175
R. A. Malone	249.051	20,768	84,909	102 960	17,480	9,007	2.422	4,879	3,869	2,757	17,480	99,000
Ryan & Kelley	342.765	26.400	113 950	123 750	52,440	13,000	6 875	1,350	2,500	2,500	52,440	110,800
D. J. McNichol	439,129	24,498	153 767	181,383	54,331	11 500	2,900	5,050	3,200	2.500	43 000	160,500
Harrison Cons. Co., Newark, N. J	250 963	20,548	93,000	91,575	31.245	6.245	1.500	500	4,550	1,800	27,312	84,120
J. H. Louchheim, Philadelphia Pa	439,260	26,400	144 150	202,950	34,960	19.500	5,300	1,000	2,500	2,500	32 775	183 150
C. F. Taylor & Co., Syracuse, N. Y	460 218	44 000	169,725	168,300	43,700	11,993	7,000	2,000	7,000	6.500	29,330	148,500
U. S. Sand Filt. Corp	490,557	44,313	169,212	177,485	89,953	3,900	780	520	2,404	1,950	62,445	147,485

FURNISHING MACHINERY.—CONTRACT No. 3.

	Total Bid.	Boilers.	Pumps.	Condensers.	Feed Pumps.	Sand Washer Pump.	Service Pump.	Feed Water Heater.	Piping System.	Generator
R. D. Wood & Co., Philadelphia	$40.570	$9,280	$13,000	$4,830	$900	$1,010	$210	$340	$5,500	$5,500
D. Oller Engine Co., Philadelphia	32.470	6,881	8 636	3.200	725	725	375	340	7,688	3,900
Industrial Supply Co., Wilmington	35 745	6.492	9 593	......	....	....	....	255	......	......
D. J. McNichol, Philadelphia	39,168	9 281	10.049	3.263	792	869	484	900	9,240	4 290
Manf. Contracting Co	36 757	7,590	10,050	3.329	814	601	228	368	8,396	4 290
J. W. Allison & Co	39,860	9,900	10,500	4,400	820	810	520	410	8,000	4 500
J. W. Allison & Co	44,690	......	......	......	....	....	....	....	......	......
Alternative bid	37,690	......	......	......	....	....	....	....	......	......

FURNISHING CAST IRON PIPE AND SPECIALS.—CONTRACT No. 4.

Items.	Quantities.	R. D. Wood & Co.	Carroll Porter Boiler & Tank Co.	Gillespie Co.	U. S. Cast Iron Pipe Co.	D. J. McNichol.	Sand Filt. Corp. of America.	Reeves Bros.
Total bid		$59,800	....	$62,368	$60 862	$69 297	$86 900	....
6 in. to 48-in. cast iron pipe	875 tons	18,025	....	18,594	18 989	20,562	28 875	....
Specials	155 tons	10,875	....	11 899	10,075	13 485	8.520	....
48-in. cast iron pipe, 100 ft. head	1,100 tons	22 660	....	23,375	23,220	25,850	36,300	....
48-in. cast iron pipe, 200 ft. head	400 tons	8,240	....	8,500	8 480	9 400	13,200	....
Alternative bid, 49-in. riveted steel pipe	3,300 ft.—100 ft. Hd... 1,070 ft.—200 ft. Hd...	....	27,100	26,657	....	54 625	35,449	27,007

SUPPLYING GATE VALVES, CHECK VALVES, BALANCED OR AUTOMATIC VALVES AND SLUICE GATES.—CONTRACT No. 5.

Items.	Quantities.	Coffin Valve Co.	Delaware Marine Supply Co.	Rensselaer Mfg. Co.	C. W. Thomas.	Eddy Valve Co.	Ryan & Kelley.	D. J. McNichol.
Total bid		$17,975	$23,088	$17 207	$13,739	$10,659	$19.032	$21,822
Sluice gates: 48 x 60 ins	2	887	972	1,300	675	......	1,485	1,462
48 ins	1	327	462	327	235	......	322	519
42 x 42 ins	6	2 364	2.100	1,800	1 500	......	1,878	2 450
Special Weir gates	6	1,922	1,772	1,710	1,200	......	1 914	3,468
48 ins. diam	2	654	924	654	470	......	645	924
36 ins. diam	1	216	235	190	148	......	222	231
Flanged gate valves: 48 ins. diam	3	1 821	3 0 2	2 034	2 250	2,025	2.491	2,490
42 ins. diam	3	1,605	2,040	1,650	1 350	1,350	1,541	1,542
6 ins	1	30	55	25	20	10	13	26
20 ins	8	1.147	1.480	772	800	720	757	760
16 ins	14	1,179	1 890	896	945	823	974	994
6 ins	16	474	592	528	320	384	400	400
12 ins	6	222	390	180	210	162	201	204
20 ins	4	570	740	340	400	360	365	364
12 ins	2	102	148	100	70	82	87	88
Check valves: 42 ins	2	1,586	2,100	1,700	2 100	2,000	2,675	2,676
20 ins	2	345	296	228	296	240	234	236
24-in. gate valve—bell	2	303	370	200	370	250	230	232
20-in. balance valves	6	1,935	3.000	2,280	3,000	1,800	2,310	2,478
30-in. butterfly valves	2	252	500	315	500	450	380	308

RIPRAP.—New London, Conn.—Following bids per ton were received Sept. 27 by Lt.-Col. Chas. F. Powell, U. S. Engrs., for placing about 10,000 tons riprap stone for repairing jetties at mouth of Connecticut River: E. S. Belden & Sons, Hartford, Conn., $1.23; Thomas A. Scott, New London, Conn., $1.48; estate of John Beattie, Leetes Island, Conn., $1.95; Humphrey Toomey, Guilford, Conn., $1.23¾.

REGULATING, GRADING, ETC.—New York, N. Y.—Following bids were received Sept. 26 for regulating and grading, setting curbstones, etc., in Broadway, from Spuyten Duyvil Creek to northerly line of city of New York; (1) Geo. I. Bailey, 2030 Boston Road; (2) W. J. Murray, 1135 Boston Road; (3) Jno. J. Hopper, 215 West 125th St.; (4) F. V. Smith Contracting Co., 147 East 125th St.; (5) A. J. Collins, Fordham, N. Y.; (6) P. Reddy, 20 West 117th St.; (7) Thos. J. Dunn:

Bids received at New York, N. Y., September 23, 1904, for Regulating and Grading, Setting Curbstones, etc., in Broadway, from Spuyten Duyvil Creek to Northerly Line of City of New York.

Items.	Quantities.	(1)	(2)	(3)	(4)	(5)	(6)	(7)
Earth	39,000 cu. yds.	$0.60	$0.65	$0.50	$0.20	......	$0.48	$0.50
Rock	6,200 "	2.00	1.75	1.50	1.50	2.00	1.65	1.50
Fill	175,000 "	.70	1.00	.85	.95	.50	.67	.95
New curb	26,000 lin. ft.	.90	.99	1.20	.90	.75	.75	.70
Old curb	630 "	.20	.20	.10	....	.25	.10	.30
New flag	100,000 sq. ft.	.26	.26	.35	.26	.25	.26	.22
Old flag	2,500 "	.05	.05	.10	....	.05	.05	.06
New bridge	14,000 "	.60	.60	1.00	.60	.50	.50	.70
Dry rubble	5,600 cu. yds.	3.00	2.50	3.50	2.00	2.00	2.00	3.00
Dry rubble mortar	500 "	6.00	6.00	7.00	5.00	4.00	4.50	3.25
12-in. pipe	1,500 ft.	2.50	1.00	1.00	3.00	2.00	.40	1.50
18-in. pipe	100 ft.	3.50	1.50	1.50	5.00	3.00	1.00	1.75
Lumber	10,000 ft. B. M.	30.00	30.00	40.00	40.00	30.00	24.00	26.00
Old bridge	450 sq. ft.	.15	.25	.20	....	.20	.10	.40
Drainage inlets	35	150.00	20.00	200.00	50.00	75.00	5.00	20.00
Totals		$245,868	$291,353	$290,303	$262,000	$171,197	$213,498	$267,379

U. S. POSSESSIONS AND CUBA.

FLOATING PILE DRIVER.—Cuba.—Following bids were received by Bureau Yards and Docks, Washington, D. C., Oct. 1, for floating pile driver for naval station at Guantanamo, Cuba: Chas. H. Thrall & Co., 15 O'Reilly St., Havana, Cuba, $11,000; S. Dana Scott, Zanesville, O., $14,000; Ellicott Machine Co., Severn St., Baltimore, Md., $17,894; William L. Miller, 19 Milk St., Boston, Mass., $9,989, alternate, $9,000; The Snare & Triest Co., 39 Cortlandt St., New York, N. Y., $10,900.

Engineering News Holdover—Eighty-four

BRIDGE.—Manila, P. I.—The following information has been received from Major J. F. Case, Cy. Engr., regarding construction of superstructure of Ayala bridge over Pasig River, bids for which are asked until Dec. 1, as advertised in Engineering News: "The term machinery is used to cover any parts of the structure which might be so interpreted. The bridge is 'fixed' and requires no motive or operating power machinery. We have no asphalt pavements in Manila, and therefore no data as to its cost there. Cement is about $2.30 gold per bbl., broken stone about $2 gold per cubic meter. All materials pay customs duties."

MEXICO.

RAILWAYS.

OAXACA.—Plans are stated to be under way for building a railroad from city of Oaxaca to point on Isthmus of Tehuantepec. Projected road is about 250 miles long. W. W. Nelson, Hall Bldg., Kansas City, Mo., and T. A. Witten, New York Life Bldg., Kansas City, Mo., are said to be interested.

SAN MARCOS OLLOQUI.—Compania Ferrocarrill de Circumvalacion is stated to have practically made all arrangements for building a narrow gage railroad between the towns of San Marcos Olloqui and Berrizabal in the state of Tamaulipas. The total length will be 56 kilometers.

STREET AND ELECTRIC RAILWAYS.

CITY OF MEXICO.—Local advices state that M. D. Watson and J. R. Bickerdike, Chicago, Ill., will soon ask federal concession for construction of electric railroad from Rosa Amarilla copper mines, State of Jalisco, to the Pacific Coast port of Navidad. Preliminary surveys have been completed and concessions for two water powers are held by the company.

LIGHT AND POWER PLANTS.

CHIHUAHUA.—This city will erect new municipal building. Governor Enrique Creel may be able to give information.

National Bank of Mexico will erect 3-story building.

CITY OF MEXICO.—Chicago capitalists who have been considering establishment of large department store here, are stated to have definitely decided to inaugurate the enterprise. J. T. Carnahan, Chicago, Ill., has been in this city to select site on which will be erected 5-story modern store building.

CITY OF MEXICO.—The Department of War will soon begin the construction of barracks on the ground recently purchased by the federal government at Vallejo.

LEON, GUANAJUATO.—Bids are asked by City Council until Oct. 31 for electric lighting of city, the present contract having expired. In addition to the public lighting the domestic service will be large. Information can be obtained from Felix Cortes, Secretario del Ayuntamiento, Leon.

ROSARIO, SINALOA.—Guillermo Vega has obtained concession from federal government to construct hydraulic works for motive power or industrial purposes on the Baluarte River, in district of Rosario, or on the Rosario River, in the same district; he is authorized to divert 10,000 liters of water, per second. Surveys must commence for the location of the works within six months from Sept. 9th, and plans must be submitted within twelve months of the same date, and construction commenced within the following twelve months, and completed within the next five years. Electric power is to be generated and transmitted.

BUILDINGS.

FRONTERA.—The Victoria Cattle & Fruit Exportation Company recently organized with $500,000 capital stock for purpose of growing and exporting bananas and to engage in cattle raising in the State of Tabasco, will also erect a large hotel at this place. The company owns 13,000 acres of land, situated on the Rio Grijalva. Wallace J. Purdie, City of Mexico, is interested.

PUEBLA—The Banco Oriental of Puebla will build an office building.

SALTILLO.—Ricardo de la Vego will erect a modern theater building in this city.

WATER-WORKS.

SANTA ROSA MARIA, STATE OF CHIHUAHUA.—Dr. Luis de la Garza Cardenas, Chihuahua, has applied to the Mexican Government for a concession to establish a large irrigating plant near here. The water supply will be obtained from the Santa Ana River.

MANUFACTURING PLANTS.

CHIHUAHUA.—Syndicate of New York capitalists, represented by Judge A. B. Fall, El Paso, Tex., has purchased about 2,000,000 acres of pine timber land in western part of this state. It is stated that lumber mills will be erected at once, and a short line of railroad built to connect the timber tract with the C. & P. R. R.

CITY OF MEXICO.—J. A. Cunningham, Salt Lake City, Utah, is negotiating for purchase of tracts of timber land in Southern Mexico. He will establish lumber mills if the deal is consummated.

It is stated that a large addition is to be erected to E. Buen cigarette factory in this city, and that considerable new machinery will be installed.

Messrs. Ekins and McQuiston have applied to the Mexican Government for a concession to establish factory in City of Mexico for making disinfectants. Creosote or coal-tar oil will be distilled.

The Compania Internacional de Vigas Huecas de Cemento is being organized in city of Mexico with a capital stock of $200,000 for the purpose of manufacturing hollow cement beams for use in the construction of buildings. W. B. Murray, banker, Capuchinas 5, City of Mexico, can give information.

Robles Gil, a manufacturer of soaps and toilet articles in this city, will establish a factory for making paper boxes.

PACHUCA.—The Tortilla Manufacturing Co. has been organized here with a capital stock of $40,500 to manufacture tortillas. Alfred Bishop is one of the directors.

SAN JUAN BAUTISTA, TABASCO.—The Tabasco Plantation Co., which owns a large plantation in this state, will, it is stated, erect a large sugar mill and will be in the market for a large amount of machinery. Orders have been given for the employment of an engineer to prepare the plans for the mill. An extensive system of railroad trams to extend to the various parts of the plantation will also be constructed. The sugar mill and tram system will cost about $1,500,000 gold. The company has also let the contracts for the erection of a 25,000-bushel grain elevator and warehouses. George E. Davis is Mgr.

MISCELLANEOUS.

BULL RING.—City of Mexico.—Messrs. Aguialar and Carrodeques have had plans prepared for the new bull ring which they will construct here. A large amount of structural steel will be required.

COLONIES.—City of Mexico.—Bishop W. W. Cluff, of the Mormon church, with headquarters at Salt Lake City, Utah, is investigating lands in Mexico with the view of selecting a location for Mormon colonies which are to be established in this country. It is stated that he is negotiating for the purchase of the Yextla timber tract, situated in the state of Guerrero. If the deal is consummated, lumber mills will be established on the land

CONCENTRATOR.—Mascota, Jalisco.—A concentrating plant and mill is to be erected at the foot of the Agujas mountain, in the Mascota district; water power from the Tatoani River will be utilized for power. Henry M. Sunde, Mascota, may be interested.

MINING MACRINERY.—Ciudad Camargo, Chihuahua.—Encinilla Mining Co., of Ciudad Camargo, has decided to expend $1,500,000, it is reported, in the purchase of machinery and other implements for the exploration of its properties.

MINING MACHINERY.—Jimulco, Zacatecas.—The Zacatecas Mining Co., which operates a copper mine near Jimulco, intend to purchase considerable machinery, according to reports.

MINING MILL.—Caborca, Sonora.—The San Blas Mining Co., operating a property near the town of Caborca, Altar district, Sonora, is stated to be making arrangements to erect a large mill.

STAMP MILL.—Parral, Chihuahua.—Premier Exploration & Development Syndicate, Ltd., has been organized in London, England, for exploration and development of mining properties near Parral. A small stamp mill will be erected at once, and later on a large amount of machinery will, probably, be required. W. P. Guthridge is Mgr.

STAMP MILL.—Durango.—The Cavilanes Mining & Milling Co., of Chicago, is to erect a stamp mill, of a daily capacity of 20 tons, at once, and considerable additional machinery may be required in the future. E. M. Bind, Consult. Engr. of the company, may be addressed at Torreon, Durango.

STREET IMPROVEMENTS.—City of Mexico.—The street department of this city has had plans prepared for a large amount of road improvement work which will be done in the near future. It is proposed to place the roads leading from this city to the different suburbs in first class condition.

TIMBERLAND.—Chilpancingo, Guerrero.—E. L. Massie, Kansas City, Mo., and H. R. Kline, have purchased 360,000 acres of timber land in this state. It is stated that the new owners will utilize the timber and will establish a colony on the land.

FOREIGN CONTRACTS—EXPORT NEWS.

SEWERAGE.—England.—According to reports of engineers the city of Leeds sewage disposal scheme will cost about $5,000,000.

RAILROAD, ARGENTINA.—Argentine Government has granted concession to Lumb & Co., Buenos Aires, for construction of a fair-sized standard gage railroad.

SEWERAGE.—England.—Sheffield City Council is stated to have decided to treat the city sewage by the biological process at an initial cost of about $1,350,000.

ELECTRIC LIGHTING.—England.—Council of Bristol has applied for sanction to borrow $632,500 for electric lighting purposes and $80,000 for street improvements.

RAILROAD.—Chili.—Actual work has been started on the Transandine Railway in Chili. Transandine Construction Co., 144 Leadenhall St., London, England, is in charge of the work.

DOCKS.—Great Britain.—At recent meeting of stockholders of Caledonian Ry Co., at Glasgow, it was stated that year's estimate of expenditures included $400,000 for new docks at Grangemouth.

TELEGRAPH AND TELEPHONE MATERIAL.—Australia.—Bids will be received at office of Deputy Postmaster General Hobart, until Nov. 23, for supplying telegraph and telephone material.

READERS' WANTS

This Department contains special requests, and detailed items, from persons in the market for supplies, and from others asking for the names and addresses of firms manufacturing certain tools, machinery and supplies required for work in which they are interested. ENGINEERING NEWS will be glad to furnish at once, free of cost, names and addresses of firms making the machinery or material desired, after which the item will appear in this column, UNLESS OTHERWISE REQUESTED, which request will be honored absolutely. The information in all cases will be sent to our advertisers handling the material wanted, or to other firms should it be out of the line of our advertisers. Every day we are receiving such requests with the understanding that it must not appear in the paper.

IRON WATERING TROUGHS.—Walpole, N. H.—H. E. Cowan, Supt. Walpole Water and Sewer Co., Box 569, wants catalogues from firms manufacturing iron water troughs suitable for public squares.

CEMENT BRICK-MAKING MACHINERY. — North Chelmsford, Mass.—P. T. McMahon, Contractor, of North Chelmsford, writes us that he wants names and addresses of firms who make cement brick-making machinery.

MANUFACTURING LATHES.—Pulaski, N. Y.—A. J. Champney, of Pulaski, writes us that he wants the names of firms who are prepared to build a lathe or drill for boring at one operation an oblong steam cylinder from 1 ft, to 4 ft. long.

DIRECT-OILING STEAM PUMP, ETC.—Marseilles, France.—A. Macfarlane, U. S. Deputy Consul General, writes us that a correspondent wants to secure parts for a direct oiling steam pump, and it is suggested that manufacturers write Mr. Macfarlane.

STAMPING WORK.—Cincinnati, O.—J. H. Dressel, care of General Delivery P. O., Cincinnati, writes us that he wants the addresses of firms prepared to do stamping work, which will require the making of necessary dies for cutting and bending the material to shape.

OPEN-HEARTH STEEL CASTINGS.—Brooklyn, N. Y.—J. W. Rinker, Vice-Pres. and Gen. Mgr. Brown Excavating Machine Co., 538 Bergen St., writes us that he wants the names and addresses of manufacturers of open-hearth steel castings, local or near-by firms desired.

IRON WAGON WHEELS (24 to 36 ins.), VERTICAL ENGINES (3 to 15 HP.), AND GEARS.—New York.—A correspondent wants catalogues at once from firms manufacturing the above supplies, which material will probably soon be wanted in great quantities. Address, E. H. F., care of Engineering News, 220 Broadway, New York.

PHOTOGRAPHS OF ENGINEERING WORKS.—Madison, Wis.—Chas. V. Hopper, 926 West Johnson St., Madison, writes us that he wishes to buy photographs, 8 × 10 ins., of a number of important engineering works, and would like catalogues from firms making such photographs.

GAS WELL DRILLING.—Great Falls, Mont.—D. S. Ellis, Cy. Engr., writes us that names are wanted of firms prepared to drill a test gas well to a depth of 3,000 ft. if necessary. Mr. Ellis wants to communicate with firms in the Pennsylvania and Ohio oil and gas districts. It is proposed to organize a company for the purpose of prospecting.

PORTABLE SAWMILL, WOOD ALCOHOL MACHINERY AND TELEPHONE APPLIANCES.—Wilkes-Barre, Pa.—John H. Lanse, of Wilkes-Barre, writes us that he wants the name of firms that manufacture small portable sawmills, 3,000 to 5,000 ft. a day, machinery for making wood alcohol from waste in lumbering, and telephones and telephone appliances.

CATCH BASINS (24), PORTLAND CEMENT (300 bbls.), ELECTRIC PLANT (500 lights), WATER FILTER, FIRE ALARM SYSTEM, FIRE HOSE (700 ft.), GARBAGE DISPOSAL PLANT, HYDRANTS (7), MANHOLES, SEWER PIPE (11,000 ft.), TRENCH RODS (30).—Louisa, Ky.—W. B. Cox & Co., of the Louisa Water Co., writes us that they are in the market for the above-mentioned supplies.

COAL CAR UNLOADERS.—Watertown, N. Y.—J. W. Eber, Div. Engr., N. Y. C. & H. R. R. R., Watertown, writes us that he wants the names of concerns making plants for unloading standard coal cars by picking the same up bodily and dumping them. Such a plant as would be required to expeditiously load vessels at a dock where the facilities would not permit the building of a trestle.

ELECTRIC LIGHTING.—South Africa.—The electrical engineering firm of Harris, Lee & Co., Johannesburg, South Africa, has secured concession for lighting of town of Bethlehem, Orange River Colony.

ELECTRIC PLANT EXTENSIONS.—Great Britain.—Govan, Scotland, has made application for increased borrowing powers to extent of $235,000, which sum is to embrace extensions of the electric plant up to 1906-7.

ELECTRIC LIGHTING.—India.—Municipality of Darjeeling has been granted a license under the Indian Electricity Act of 1903, to supply electricity within certain specified areas in the town and neighborhood of Darjeeling.

ELECTRIC LIGHTING.—England.—Borough of Marylebone has obtained sanction to borrow $1,700,000 for electric lighting purposes, $242,000 for alterations of mains and works, and $224,000 for meters or alteratons to present meters.

MACHINERY AND IRONWORK.—Brazil.—Brazilian Central Ry. Co. is stated to be calling for bids for certain machinery and iron in accordance with specifications, which may be seen at office by this railway in Rio de Janeiro. Adjudication of tenders will take place Oct. 31, personal attendance being necessary.

GAGING ELECTRICITY.—France.—French Society of Manufacturers has offered prize of $1,200 to the inventor of the best apparatus for gaging current of an electric conductor. Competition closes Dec. 31. Particulars may be obtained from the President, Association des Industriels de France, 3 Rue de Lutece, Paris.

BRIDGES.—Ireland.—Great Northern Ry. Co. (Ireland), T. Morrison, Secy., Amiens St. Terminus, Dublin, are asking bids until Oct. 17 for reconstruction of five bridges ranging from 30 ft. to 450 ft. long. Bids will also be received for supply and delivery of four-track flooring bridge, 17-ft. span, and seven small trough girder bridges from 15 ft. to 20 ft. spans. W. H. Mills, Engr.-in-Chief, Amiens St., Dublin.

ENGINEERING MATERIAL PRICES.

These prices will appear in the first or second issue of each month.

TRACK FASTENINGS—

Chicago—at mill—Steel splice or angle bars, 1.30 to 1.35 cts.; spikes, 1.60 to 1.70 cts.; bolts, square nuts, 2.20 to 2.25 cts.; hexagon nuts, 2.30 to 2.40 cts.

RAILS, STEEL—

New York—at mill—New standard sections, $28; light rails $18.50 to $20 at mill; old iron, f. o. b., $14 to $15; old steel, f. o. b., rerolling lengths, $11.50 to $12.50; old steel, short pieces, $11 to $11.50; relayers, $16 to $17.

Chicago—at mills—New, $28, standard sections; light rails, $20 to $22; old iron, $16 to $16.25; old steel, 4 ft. and over, $12 to $12.25; old steel, less than 4 ft., $11 to $11.25; heavy relayers, $20.50 to $21.50; heavy relayers, for side tracks, 18 to $20.

Pittsburg—at mill—Standard sections, $28.

STRUCTURAL MATERIALS—

New York—at tidewater—Beams, channels, angles and zees, 1.54½ to 1.80 cts.; tees, 1.59½ to 1.80 cts.; bulb, angles and deck beams, 1.64½ to 1.85 cts.

Chicago—I-Beams and channels, 3 to 15-in., inclusive, and angles 3 to 6-in., ¼-in. and heavier, 1.56½ cts. Store prices, angles, beams, channels and zees, 1.80 to 1.90 cts.; tees, 1.85 to 1.95 cts., random lengths or cut to 5 ft. and over.

Pittsburg—Beams, channels and zees, up to 15-in., 1.40 cts.; over 15-in., 1.50 cts.; angles, 3 × 2 up to 6 × 6, 1.40 cts.; zees, 3-in. and larger, 1.40 cts.; tees, 3-in. and larger, 1.45 cts.

PLATES AND SHEETS—

New York—at tidewater—Sheared plates, carload lots, tank, 1.54½ to 1.65 cts.; flange, 1.64½ to 1.80 cts.; marine, 1.74½ to 1.90 cts.; fire box, 1.74½ to 2.50 cts.

Pittsburg—Tank, ¼-in. thick and up to 100 ins. wide, 1.40 cts., at mill, Pittsburg; flange and boiler steel, 1.50 cts.; marine and ordinary fire box, 1.60 cts., at mill, Pittsburg; locomotive fire box, 1.70 cts.

MERCHANT STEEL—

Chicago—Machinery, smooth finished, 1.71½ to 1.76½ cts.; tire, smooth finished, 1.66¼ to 1.71½ cts.; open hearth spring, 1.85 to 1.90 cts.; crucible tool, 6½ to 8 cts.; special tool, 13 cts. and up.

Pittsburg—Crucible tool steel, ordinary grades, 5½ to 7 cts.; 8 to 15 cts. for special grades; tire steel, 1.50 cts.; sleigh shoe, flat, 1.40 cts.; cutter shoes, tapered and bent, 1.90 to 2 cts.; open hearth spring steel, 1.85 to 2 cts.

IRON—

Pig Iron:

New York—at tidewater—No. 1 Foundry, $14.75 to $15; No. 2 Foundry, $14 to $14.50; Gray Forge, $12.75 to $13; Tennessee and Alabama brands $13 to $13.50, for No. 2 Foundry, and $12.50 to $12.75 for No. 3 Foundry.

Chicago—f. o. b. Chicago—Lake Superior Charcoal, $14.75 to $15; Northern Coke Foundry, No. 1, $14 to $14.50; Northern Coke Foundry, No. 2, $13.50 to $14; Northern Coke Foundry, No. 3, $13 to $13.50; Northern Scotch, No. 1, $14 to $14.50; Ohio Strong Softeners, No. 1, $14.80 to $15.05; Ohio Strong Softeners, No 2, $14.55 to $14.80; Southern Silvery, according to Silicon, $14.15 to $15.15; Southern Coke, No. 1, $13.65 to $13.90; Southern Coke, No. 2, $13.15 to $13.40; Southern Coke, No. 3, $12.90 to $13.15; Southern Coke, No. 4, $12.15 to $12.40; Southern Coke, No. 1, Soft, $13.65 to $13.90; Southern Coke, No. 2, Soft, $13.15 to $13.40; Southern Gray Forge, $12.15 to $12.40; Southern Mottled and White, $11.90 to $12.15; Malleable Bessemer, $13.50 to $14; Standard Bessemer, $14.25 to $14.75; Jackson County and Kentucky Silvery, 6 to 10% Silicon, $17.30 to $19.30; Alabama Basic, $13.15; Virginia Basic, $14.10 to $14.35.

Pittsburg—Bessemer at Valley furnace, $12; Gray Forge at Pittsburg, $11.75 to $12; Foundry iron, Northern, No. 2, $11.90, at Valley furnace; $12.75 at Pittsburg.

Cast-Iron Pipe:

New York—Carload lots, gross tons, 6 to 10 ins., at tidewater, $25 to $25.50; 12 ins. and up, $24 to $25.

Chicago—4-in. water pipe, $25.50; 6-in. and heavier, $26.50, with $1 extra for gas pipe.

MISCELLANEOUS MATERIALS—

Asphaltum:

Ventura and other California asphalts, $21 per ton at New York; Trinidad refined, $25 per ton; Venezuela asphalt, $26 to $27 per ton.

Cement:

Rosendale, in wood, 70 cts.; Portland, domestic, $1.28; Portland, Atlas, $1.50 to $1.60; Portland, Dragon, $1.50 to $1.60; Vulcanite, $1.45 to $1.60.

Copper:

Lake, 12.75 to 13 cts.; electrolytic, 12.75 to 12.87½ cts.; casting, 12.50 to 12.62½ cts.

Explosives:

Blasting powder, A, 25-lb. keg, 65 cts.; B, $1.40; "Rackarock," A, lb., 25 cts.; B, 18 cts.; Judson R. R. powder, lb., 10 cts.; dynamite (20% nitro-glycerine), 13 cts.; (30% ni.-gly.) 14 cts.; (40% ni.-gly.) 15 cts.; (50% ni.-gly.) 16½ cts.; (60% ni.-gly.) 18 cts.; (75% ni.-gly.) 21 cts.; glycerine for nitro, lb., 12⅜ to 12⅝ cts.

Lead.

New York, spot, 4.20 to 4.30 cts.

Spelter:

New York, spot, 5.10 to 5.20 cts.

Tin:

New York, spot, 28.10 to 28.30 cts.

LUMBER—

New York, wholesale prices:

Piling—Spruce, ordinary cargoes, 5 to 6 cts.; oak 14-in. butt, 40 to 50 ft., 19 cts.; 50 to 55 ft., 22 cts.; 55 to 60 ft., 23 cts.; 60 ft and up, 25 cts.; pine, 60 to 65 ft, $8.50; 65 to 70 ft., $9.50; 70 to 75 ft., $10.50; 80 ft. and up, $16.

Railroad ties—Yellow pine, 6 × 9 ins. × 8 ft., 58 to 60 cts.; 6 × 8 ins. × 8 ft., 53 to 55 cts.; 7 × 9 ins. × 8 ft., 62 to 64 cts.; 7 × 8 ins. × 8½ ft., 57 to 59 cts.; 7 × 9 ins. × 8½ ft., 64 to 66 cts.

STEEL GIRDER BRIDGE.

Essex County Park Commission.
Newark, N. J.

Sealed proposals will be received at the office of the Essex County Park Commission, 800 Broad street, Newark, N. J., until 3.30 p. m., Tuesday, October 18, 1904, for furnishing and erecting a Steel Girder Bridge across the tracks of the Lehigh Valley Railroad at Weequahic Reservation, Newark, N. J.; the abutments and concrete piers for said bridge will be built under a separate contract. The bridge will be in three spans and of a total length between abutments of 160 feet and 11 inches, carrying a 20-foot roadway, and an 8-foot sidewalk.

Plans and specifications can be examined, and blank form of proposal and other information obtained at the office of the Engineer, 60 Clifton avenue, Newark, N. J., between the hours of 11 a. m. and 5.30 p. m.

A certified check for five hundred ($500) dollars, payable to the Essex County Park Commission, without any conditions endorsed thereon, must accompany each bid, and be forfeited by the successful bidder unless he enters into a contract should the same be awarded to him. The amount of security required is three thousand ($3,000) dollars. The Essex County Park Commission expressly reserves the right to reject any or all bids, and retains the right to accept any bid which, in its judgment, is for the best interest of the county.

A. CHURCH,
Secretary.

14-2t

CONCRETE MASONRY BRIDGE ABUTMENTS, WING WALLS AND PIERS.

Essex County Park Commission.
Newark, N. J.

Sealed proposals will be received at the office of the Essex County Park Commission, 800 Broad street, Newark, N. J., until 3.50 p. m., Tuesday, October 18, 1904, for the construction of concrete masonry bridge abutments, wing walls and piers at Weequahic Reservation, Newark, N. J.

Plans and specifications can be examined and blank form of proposal and other information obtained at the office of the Engineer, 60 Clifton avenue, Newark, N. J., between the hours of 11 a. m. and 5.30 p. m.

The Engineer's estimate of the amount of work to be done, and by which the bids will be tested is as follows:

1,000 cubic yards excavation of earth.
950 cubic yards concrete masonry.

Each proposal must be accompanied by a certified check for five hundred ($500) dollars, made payable to the Essex County Park Commission, without any conditions endorsed thereon, and to be forfeited by the successful bidder in case he fails to enter into a contract, should the same be awarded to him.

The amount of security required is three thousand ($3,000) dollars.

The Essex County Park Commission expressly reserves the right to reject any or all bids, and retains the right to accept any bid which in its judgment is for the best interest of the county.

A. CHURCH,
Secretary.

14-2t

STEEL TOWER AND TANK, PUMPS AND ENGINE.

Kiel, Wis.

Sealed bids will be received by the Village Board of Kiel, Wis., until 10:00 A. M., Oct. 26, 1904, for a 75' steel tower and 60,000-gallon steel tank; one deep well centrifugal or rotary pump; one high lift turbine pump, and one 25-HP. gasoline engine.

W. G. KIRCHOFFER, Engineer,
14-1t 31 Vroman Bldg., Madison, Wis.

Plans, etc., may be seen at Engineering News, 220 Broadway, N. Y., and Monadnock Bldg., Chicago, after Oct. 16.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., September 28, 1904.—Sealed proposals will be received at this office until 3 o'clock P. M. on the 1st day of November, 1904, and then opened, for the construction (including plumbing, heating apparatus, electric conduits and wiring) of the U. S. Post Office at Evanston, Illinois, in accordance with the drawings and specification, copies of which may be had at this office or at the office of the Postmaster at Evanston, Illinois, at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising Architect. 14-2t

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TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., October 1, 1904.—Sealed proposals will be received at this office until 3 o'clock P. M. on the 7th day of November, 1904, and then opened, for the construction (including heating apparatus, electric wiring and conduits) of the U. S. Post Office at Lawrence, Kansas, in accordance with the drawings and specification, copies of which may be had at this office, or at the office of the Postmaster at Lawrence, Kansas, at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising Architect. 14-2t

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CAST-IRON PIPE.

Atlantic City, N. J.

Sealed proposals will be received by the Board of Water Commissioners of Atlantic City, N. J., until 3.30 p. m., October 11th, 1904, for furnishing:

50 tons (of 2,000 lbs.) of 4-inch pipe.
3 " " " " " 6- " "
85 " " " " " 8- " "
110 " " " " " 10- " "
155 " " " " " 12- " "
30,000 lbs. special castings

in accordance with specifications on file in the office of the Water Department, City Hall.

Each bid must be accompanied by a certified check, made payable to the Board of Water Commissioners of Atlantic City, N. J., for two hundred dollars, which check will be returned on execution of contract and filing of bond by the successful bidder. Should the successful bidder fail to execute contract and file bond within five days after notification of award his check will be forfeited and the award may be made to any other bidder.

As proper security for the performance of contract a bond acceptable to the Board, in the sum of four thousand ($4,000) dollars will be required, and this amount shall be inserted in the contract.

Specifications may be seen at the office of the Water Department.

The right is reserved to reject any or all bids.

LOUIS KUEHNLE,
RUFUS BOOYE,
JAMES PARKER,
Commissioners.

KENNETH ALLEN,
Engineer and Superintendent. 13-2t

PUMPING ENGINES.

Department of Public Works,
Chicago, September 16, 1904.

Sealed proposals will be received by the city of Chicago until 11 a. m., Thursday, November 17, 1904, at room 222 city hall, for designing, furnishing and erecting in each of the stations known as the Central Park Ave. and Springfield Ave. pumping stations, one (1) vertical triple expansion pumping engine, each having a capacity of forty (40) million U. S. gallons of water per twenty-four (24) hours, with all necessary appurtenances, complete, according to plans and specifications on file in the office of the Department of Public Works of said city, room 325 city hall.

Proposals must be made out upon blanks furnished at said office, and be addressed to said department, indorsed "Proposals for Two Forty (40) Million Gallon Pumping Engines," and be accompanied with ten thousand (10,000) dollars in money or a certified check for the same amount on some responsible bank located and doing business in the city of Chicago and made payable to the order of the commissioner of public works.

The commissioner of public works reserves the right to reject any or all bids.

No proposal will be considered unless the party offering it shall furnish evidence satisfactory to the commissioner of public works of his ability, and that he has the necessary facilities, together with sufficient pecuniary resources, to fulfill the conditions of the contract and specifications, provided such contract should be awarded to him.

Companies or firms bidding will give the individual names as well as the name of the firm with their address.

F. W. BLOCKI,
12-8t Commissioner of Public Works.

STEEL BRIDGE.

Salem County, N. J.

Sealed proposals will be received by the Board of Chosen Freeholders of Salem County on Wednesday, October twelfth, A. D. 1904, at 11 o'clock in the forenoon, at the Court House in the City of Salem, New Jersey, for building a steel bridge in Alloway Township in said county. Plans and specifications can be seen at C. C. Ford, Jr., Clerk of said board, Salem, New Jersey.

JOHN F. AYERS,
14-1t Director.

ISTHMIAN CANAL COMMISSION.—PROPOSALS FOR PORTLAND CEMENT.—Washington, D. C., September 19, 1904.—Sealed proposals for furnishing 2,400 barrels Portland cement of American manufacture, with the privilege of calling, at any time before April 1, 1905, for any additional amount up to 10,000 barrels in 500 barrel lots as may be required, will be received at the office of the Isthmian Canal Commission, Washington D. C., until 12 o'clock noon of the 20th day of October, 1904, when they will be publicly opened. Proposals should be addressed to the Chairman of the Isthmian Canal Commission, Evening Star Building, Washington D. C., and should be endorsed "Proposal to furnish Portland Cement." General specifications for this cement may be obtained on application to the Secretary of the Commission, Washington, D. C. The Commission reserves the right to reject any and all bids, and to accept the bid most advantageous to the Commission. J. G. WALKER, Chairman of Commission. 12-4t

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ROCKY FORD DISTRICT SANITARY SEWER DISTRICT NO. ONE.

Rocky Ford, Colo.

Sealed bids for the furnishing of all materials, supplies, labor, etc., and the sustaining of all the expense incurred in constructing in place a District Sanitary Sewer, together with all manholes, inlets and appurtenances in and for Rocky Ford District Sanitary Sewer District No. One in the City of Rocky Ford, in the County of Otero and State of Colorado, and such mains outside the said District as shall be necessary to connect the District with the Arkansas River, as ordered and authorized by Ordinance No 104 of said City, of 1904, and in accordance with the details, plans and specifications adopted and prescribed by the City Council, will be received by the undersigned at the office of the City Clerk of said City in said City of Rocky Ford until 8 o'clock P. M. on Monday, the 24th day of October, A. D. 1904, at which hour the bids will be publicly opened and read aloud. Upon opening the bids the Mayor will canvass the same and if any is accepted will, without unnecessary delay, award the contract, subject to the approval of the City Council. But the right is reserved to reject any or all bids.

The Engineer's approximate estimate of the work to be done is as follows:

38,791 linear feet 8" pipe sewer.
1,637 linear feet 10" pipe sewer.
6,842 linear feet 12" pipe sewer.
124 manholes.
24 flushers.
2,335 6" Y's on 8" sewer.
108 6" Y's on 10" sewer.
17 cubic yards of concrete for outlet wall.
100 cubic yards excavation in shale.
50 cubic yards excavation in rock.
2,000 feet B. M. lumber, left in trenches.

All bids and the contract shall be subject to all the provisions, terms and conditions of said ordinance and of an Act of the General Assembly of Colorado, entitled "AN ACT TO PROVIDE FOR THE CONSTRUCTION OF LOCAL IMPROVEMENTS IN CITIES OF ALL CLASSES," etc., approved April 8, 1899, being Chapter 151 of the Session Laws of 1899.

The successful bidder shall be required to furnish a bond in the sum of twenty thousand dollars ($20,000.00) with surety to be approved by the Mayor for the faithful performance of the contract.

To insure good faith on the part of the bidder, a cashier's check in the sum of One Thousand Dollars ($1,000.00) on some Bank in Rocky Ford, Colo., must accompany each bid, payable to the Treasurer of the said City of Rocky Ford, to be forfeited to the said City as liquidated damages in case the bid shall be accepted and the bidder shall fail, for 10 days after notice of the approval of the acceptance thereof by the City Council given personally or by mail to his address, to enter into the contract awarded him.

Said Ordinance and all Resolutions and proceedings in the premises and all the said details, plans and specifications may be seen and examined at the office of the City Clerk on and after the date hereof.

Dated at Rocky Ford this 21st day of September, 1904.

ROBERT M. POLLOCK,
13-2t Mayor.

DEPARTMENT OF THE INTERIOR. Washington, D. C., August 30, 1904.—Sealed proposals, in duplicate, will be received by the Engineer U. S. Geological Survey, Lawton, Okla., up to 2 o'clock p. m., October 10, 1904, for the erection of nine public buildings in Oklahoma Territory, as follows: One court house and one jail building in each of the cities of Lawton, Comanche County; Anadarko, Caddo County, and Hobart, Kiowa County; one 8-room and one 4-room school building in the city of Lawton, and one 8-room school building in the city of Hobart; and also for moving into each of said jail buildings and properly installing in the same steel jail cells now located in temporary structures on the respective court house lots. Bids should be addressed to the Engineer, U. S. Geological Survey, Lawton, Okla., and will be publicly opened at 2 o'clock p. m. October 10, 1904, at the office of the U. S. Geological Survey, Lawton, Oklahoma. Specifications and forms of proposal may be obtained on application to the Engineer, U. S. Geological Survey, Lawton, Okla., or to Mauran, Russell & Garden, Chemical Building, St. Louis, Mo.; the latter will also furnish complete sets of plans upon receipt of draft or money order for $6.15. Each bid must be accompanied by a certified check, payable to the order of the Secretary of the Interior, for 2 per cent. of the aggregate amount thereof, as a guarantee that the bidder will, if successful, promptly execute a satisfactory contract and bond in the sum of 50 per cent. of the contract price for the faithful performance of the work. The cost of construction of the buildings and moving of prison cells is to be paid out of the funds derived from the sale of town lots in Lawton, Anadarko and Hobart, respectively, held in August, 1901, as provided by the acts of March 3, 1901, and June 30, 1902. The right is reserved to reject any and all bids, waive technical defects, and accept any part of any bid and reject any other part, if the interests of the Government require it. THOS. RYAN, Acting Secretary. 9-6t

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GATE VALVES.

Atlantic City, N. J

Sealed proposals will be received by the Board of Water Commissioners of Atlantic City, N. J., until 3.30 p. m., October 11th, 1904, for furnishing:

54 4-inch gate valves
15 6- " " "
13 8- " " "
8 10- " " "
13 12- " " "
1 14- " " "

in accordance with specifications on file in the office of the Water Department, City Hall

Each bid must be accompanied by a certified check, made payable to the Board of Water Commissioners of Atlantic City, N. J., for two hundred dollars, which check will be returned on execution of contract and filing of bond by the successful bidder. Should the successful bidder fail to execute contract and file bond within five days after notification of award his check will be forfeited and the award may be made to any other bidder.

As proper security for the performance of contract a bond acceptable to the Board, in the sum of eight hundred ($800) dollars will be required, and this amount shall be inserted in the contract.

Specifications may be seen at the office of the Water Department.

The right is reserved to reject any or all bids.

LOUIS KUEHNLE,
RUFUS BOOYE,
JAMES PARKER,
Commissioners.

KENNETH ALLEN,
Engineer and Superintendent. 13-2t

WATER PIPE AND SPECIAL CASTINGS.

Montgomery, Ala., Sept. 24, 1904.

Sealed proposals for water pipe and special castings, endorsed with the title of the work, name of the bidder, and the date of its presentation, will be received by the city treasurer of the City of Montgomery, Alabama, at his office until 12 o'clock noon, Monday, October 17, 1904, for furnishing and delivering between thirty (30) and forty (40) miles of pipe, varying in size from 4-in. to 14-in. internal diameter, with special castings to correspond; all in accordance with specifications on file in the office of the city engineer. Each bidder must deposit with his bid a certified check upon a responsible bank in the sum of One Thousand Dollars ($1,000.00), payable to the city treasurer as a guarantee of good faith. A bond in a reliable surety company authorized to do business in the state of Alabama, must be given by the successful bidder in the sum of Ten Thousand Dollars ($10,000.00), conditioned for the prompt and faithful performance of all the terms of the contract. The City Council reserves the right to reject any and all bids.

R. S. WILLIAMS,
13-2t City Treasurer.

ISTHMIAN CANAL COMMISSION.—PROPOSALS FOR STEEL DUMP CARS AND STANDARD AMERICAN FLAT CARS FOR ISTHMIAN CANAL COMMISSION.—Washington, D. C., September 19, 1904.—Sealed proposals for furnishing one thousand steel dump cars and five hundred standard American flat cars for construction work on the Isthmus of Panama, will be received at the office of the Isthmian Canal Commission, Washington, D. C., until 12 o'clock noon of the 20th day of October, 1904, when they will be publicly opened. Proposals should be made separately for the dump cars and for the flat cars, and should be addressed to the Chairman of the Isthmian Canal Commission, Evening Star Building, Washington, D. C., and should be endorsed "Proposal to furnish one thousand steel dump cars for construction work on the Isthmus of Panama," and "Proposal to furnish five hundred flat cars for construction work on the Isthmus of Panama." General specifications for those cars may be obtained on application to the Secretary of the Commission, Washington, D. C. The Commission reserves the right to reject any and all bids, and to accept the bid most advantageous to the Commission. J. G. WALKER, Chairman Commission. 12-4t

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PROPOSALS FOR CONSTRUCTION.—Office Constructing Quartermaster, Chattanooga, Tenn., Sept. 24, 1904.—Sealed proposals in triplicate will be received here until 12 m., Oct. 14, 1904, for constructing fences and gates, also two ornamental entrance gates at Chickamauga Park, Ga. Information furnished upon application. U. S. reserves right to accept or reject any or all bids or any part thereof. Envelopes containing proposals to be marked "Bids for fences, gates, etc.," addressed H. W. FRENCH, Capt., Q. M. 13-3t

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OFFICE CONSTRUCTING Q. M., Burlington, Vt., September 26, 1904.—Sealed proposals in triplicate will be received until 12 M., October 11, 1904, for construction of a 150,000-gallon steel tank and trestle at Fort Ethan Allen, Vt. Information furnished on application. U. S. reserves the right to accept or reject any or all bids or any part thereof. Envelopes containing proposals to be endorsed "Proposals for steel tank and trestle" at Fort Ethan Allen, Vt. CAPTAIN T. B. LAMOREUX, Q. M. 13-2t

For other Proposal Advertisements see pages 35, 36, 37, of Advertisements and Construction News pages 175, 176.

SIX MILES MACADAM PAVING.

White Plains, N. Y.

Sealed proposals will be received by the Town Board of White Plains, N. Y., at the office of the Supervisor, until 12 M. of October 14, 1904, for Grading, Macadamizing and otherwise improving six miles of the highways of the town, viz.: Ridgeway, Haviland's Lane and the southerly portion of West St.; Rosedale Ave., Purdy Ave., Gedney Ave. Sound View Ave., Hartsdale Ave.

Said bids will be opened at the Town Clerk's office in the presence of the bidders at 12 M. of that day.

No bid will be received or considered unless accompanied by a certified check to the order of the Supervisor to the amount of Five Hundred Dollars ($500).

A bond of a duly incorporated Surety Company in a sum to be fixed by the Board of Town Officers will be required.

Specifications and forms can be obtained by addressing the undersigned, and plans can be seen at the office of the Town Clerk.

The Board reserves the right to reject any and all bids.

Dated Sept. 27, 1904.

By order of the Town Board.
FFARRINGTON M. THOMPSON,
Supervisor.
JAMES J. SHAW, Town Clerk,
133 Railroad Ave., White Plains, N. Y.
13 ?t

WATER-WORKS.

Bordentown, N. J., Sept. 16, 1904.

Sealed proposals will be received by the Board of Water Commissioners of Bordentown, New Jersey, at the Council Room in the City Hall, on the 15th day of October, 1904, at two o'clock P. M., for constructing a system of Water-Works.

The work to be done consists of constructing Collecting Drains, a Pump House and Suction Well; furnishing and erecting Pumps and Boilers; erecting a Reinforced Concrete Tower with a Steel Tank of 200,000 gallons capacity; and furnishing and laying the following amounts of Cast-Iron Pipe:

17,560 feet of 10-inch pipe.
3,410 feet of 6-inch pipe.
20,865 feet of 6-inch pipe.
7,410 feet of 4-inch pipe.

Bidders will be required to bid on the complete plant.

Proposals shall be endorsed "Proposals for Constructing Water-Works," also with the name of the person making the proposal, and the date of presentation.

Specifications and plans may be seen at the store of Joseph F. Coughlin, corner of Second and Thompson Streets, Bordentown, N. J.; also at the office of C. C. Vermeule, Engineer in Charge, 203 Broadway, New York.

The Board of Water Commissioners reserves the right to reject any or all proposals

All proposals must be enclosed in sealed envelopes, and addressed and delivered to the President of the Board of Water Commissioners, not later than the date and time above named.

BOARD OF WATER COMMISSIONERS,
12-3t DAVID R. BROWN, President.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., October 1, 1904.—Sealed proposals will be received at this office until 3 o'clock P. M. on the 27th day of October, 1904, and then opened, for the low pressure steam heating apparatus complete in place, for the U. S Post Office and Court House at Greeneville, Tennessee, in accordance with drawings and specification, copies of which may be had at this office or at the office of the Superintendent at Greeneville, Tennessee, at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising Architect. 14-2.

OFFICE CONSTRUCTING QUARTERMASTER, Prescott, Arizona, September 28, 1904 —Sealed proposals in triplicate will be received here until 3 p. m., October 28, 1904 and then opened, for construction of water distributing system and reservoir. Information in this office and in offices of Chief Q. Ms., Denver, Colo., and San Francisco Cal., and Recruiting Officer, Los Angeles, Cal. CHAS. C. WALCUTT, JR., Capt and Q. M. 13-4t

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OFFICE OF THE COMMISSIONERS, D. C., Washington, Sept. 29, 1904.—Sealed proposals will be received at this office until 12 o'clock M., October 13, 1904, for constructing service sewers in the District of Columbia. Specifications and blank forms of proposals may be obtained at this office. The right is reserved to reject any and all bids or parts of bids. HENRY L. WEST, JOHN BIDDLE, Commissioners, D. C. 14-1t

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DEPARTMENT OF COMMERCE AND LABOR, Light-House Establishment.—Sealed proposals will be received at the office of the Light-House Engineer, Tompkinsville, N. Y., until 1 o'clock p. m., Friday, Oct. 21, 1904, and then opened, for furnishing and placing 2,000 tons of riprap stone at Cedar Island Light-Station, N. Y., in accordance with specifications, copies of which, with blank proposals and other information, may be had upon application to LIEUT.-COL. W. T. ROSSELL, U. S. A., Engineer. 14-2t

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FORT SLOCUM, N. Y., Sept. 26, 1904—Sealed proposals in triplicate for constructing brick double barrack will be received here until 11 a. m., Oct. 15, 1904. Information furnished on application. U. S. reserves right to accept or reject any or all bids or any part thereof. Envelopes should be marked "Proposals for barrack," addressed to W. C. RUSSELL, Q. M. 13-2t

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U. S. ENGINEER OFFICE, 1637 Indiana Ave., Chicago, Ill., Sept. 26, 1904—Sealed proposals for rebuilding superstructure and laying new decking in Calumet Harbor, Ill., will be received here until noon, Nov. 4, 1904, and then publicly opened. Information on application. O. H. ERNST, Col., Engrs. 14-4t

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Properties and Economic Uses of Concrete.

Methods of Calculating Reinforced Concrete Beams, Columns, Tanks, Dams, Retaining Walls, Conduits.

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Standard Gauge Saddle Tank Locomotive

Porter build. Cylinders 12 x 18 in. Weight, loaded, 20 tons. Recently overhauled. Ready for immediate delivery.

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Self propelling, 7 ft. gauge, 3 tons capacity. 32 ft. steel boom, revolves in complete circle, travels forward and backward. Just overhauled, fine order.

CHARLES F. AVERY, 45 Broadway, New York

Situations Wanted

Received too late for pages 26 and 27. Copy should be received by Tuesday a. m.

Engineers.

POSITION WANTED in New York City by an engineer of good address and business qualifications; age 33; graduate of prominent technical school; Member American Society Civil Engineers, with 12 years' experience in structural work, including shop drawings, designing and estimating for bridge companies, designing for architects, and several years in private practice along same line. Work includes bridges of all classes, mill buildings, office buildings and other architectural work, coal tipples, etc. Capable of handling the work of others efficiently. Detailed statement, on request, of experience and work actually and successfully executed under advertiser's direction. Address "S. 7," Engineering News, New York. 14-1t

UNIVERSITY GRADUATE, CIVIL ENGINEER, 3 years' experience bridges and structures, detailing, checking, designing, wishes to better himself; competent and reliable; permanent position, with chance for advancement preferred. Address "I. A. 12," Engineering News, New York. 14-2t

ENGINEER.—Coal and ore handling machinery, cranes, etc; graduate engineer, long experience estimating, designing, operating machinery of that class, wants work as engineer for manufacturers or for company intending to install such machinery satisfactory references. Address "D. 11," Engineering News, New York. 14-4

EXPERIENCED BRIDGE AND STRUCTURAL ENGINEER wishes change; salary $150 per month. Address "P. A. 12," Engineering News, New York. 14-2

ENGINEER.—Technical graduate, at present employed in engineer's office of large trolley and lighting company, desires position in New York or vicinity with contracting or designing engineers—mechanical or electrical preferred: seven years general business and drafting room experience; $100 per month. Address "X A. 14," Engineering News, New York. 14-1t

GRADUATE CIVIL ENGINEER (25), three years' experience construction and maintenance, now located in Pittsburg, desire change; South or Southwest preferred though other localities would be considered. Address "C. 11," Engineering News New York. 14-1t

WANTED.—Civil engineer or draftsman, with experience in reinforced concrete construction, for factory buildings. Address "G. A. 14," Engineering News, New York. 14-1t

Surveyors.

TRANSITMAN, 3 years' experience on general municipal and railroad work; field plotting and computing; salary, $70 a month. Address "A. A. 14," Engineering News, New York. 14-5

RODMAN, 1½ years' experience on preliminary location and construction; handle instruments; has technical education. Address "C. A. 14," Engineering News, New York. 14-1

WANTED.—By a young man of experience position as levelman on preliminary or location; good references. W. C. DIGGS Meredithville, Va. 14-3

YOUNG MAN, with three years' experience instrument work and drafting, wants position as instrumentman with railroad or large contracting firm; graduate C. E. can report immediately. Address "E 11," Engineering News, New York. 14-1t

Draftsmen.

DRAFTSMAN.—Wanted, position by experienced structural draftsman; salary $1 per week. Address "Z. A. 14," Engineering News, New York. 14-1

MECHANICAL DRAFTSMAN wants position with mining company; having 8 years' experience on power plants, mines, in general machinery and steel construction Address "B. A. 14," Engineering News, New York. 14-3t

Superintendents, Etc.

AT LIBERTY.—Experienced man in general construction, concrete, excavation, breakwaters, foundations, etc.; would prefer work in Panama or South. Address "S A. 14," Engineering News, New York. 14-1t

Situations Open

WANTED.—A transit and levelman who are fair draftsmen; state salary expected. Address C. S. PRATT, County Engineer, Urbana, O. 14-1t

WANTED.—Two first-class draftsmen on ornamental iron work for buildings New York City; state age, references and salary expected. Address "R. A. 14," Engineering News, New York. 14-1t

WANTED.—Two first-class draftsmen on structural iron work for buildings New York City; state age, references and salary expected. Address "W. A. 14," Engineering News, New York. 14-1t

WANTED.—General superintendent for an established Southern company manufacturing all classes of bridges and structural steel, to have general supervision of shop and field construction. Capacity of works, 20,000 tons per annum. State age, experience and reference; also salary desired. Investment of $5,000 to $10,000 with services can be had if desired. Address "K. 13," care Engineering News, New York. 14-1t

WANTED.—At once, two draftsmen: those having experience in elevating and conveying machinery preferred. Address "F. A. 14," Engineering News, New York. 14-1t

WANTED.—A first-class quarryman: one who understands crushing machinery and capable of taking contracts preferred. Address "H. A. 14," Engineering News, New York. 14-1t

WANTED.—Engineer and estimator for a fireproofing company. Must have had at least five years' experience in building business; not over thirty-five years of age, quick and accurate in making estimates. Address "E. A. 14," Engineering News, New York. 14-2t

AGENCIES or BUREAUS

5 cents a word.

WANTED.—A Western concern has a position open for an expert structural engineer thoroughly experienced in the design and construction of coal tipples. Salary, $2,000. Applications will only be considered from those who have had the required experience. Apply to H. C. WILSON, Hapgoods, Brain Brokers, 309 Broadway, New York. 14-1t

Miscellaneous Wants

Designs and Estimates

furnished for power plants, shop and mill buildings and all kinds of hoisting and conveying machinery for the economical handling of material by two experienced and responsible structural and mechanical engineers. Work solicited. Satisfaction guaranteed. Best of references. Address "A. 13," Engineering News, New York. 14-3t

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WANTED

Portland Cement Machinery

Driers, Crushers, Rotaries, and Grinding Machinery. If second-hand must be modern and in good condition. Address,

CEMENT, c.o. Engineers and Architects Club
14 3t Louisville, Ky.

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with a modern cupola capacity, located in Central New York.

Address with particulars,
14-2t 612 Kirk Building, Syracuse, N. Y.

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No. 5 Style D, 10" x 60" Gates Crusher.
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2 9" x 15" Blake Crushers.
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No. 3½ Smith Portable Concrete Mixer.
6½-ft. Iron Frame Dry Grinding Pan.

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19 cu. ft. Clam Shell Bucket.
2 Bottom Dumping "wet" Concrete Buckets.
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Hoisting Engines

Just received another carload, making 23 for immediate delivery, with and without boilers, with one, two, three and four drums.

Derricks

Built to suit your requirements.

Carlin Machinery & Supply Co
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For other Proposal Advertisements see pages 35, 36, 37, of Advertisements and Construction News page 175, 176.